aiwa

aiwa SERVICE

NSX-AV720

SERVICE MANUAL

COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM: 2ZM-3MK2 YPR4N
- BASIC CD MECHANISM: 4ZG-1 Z4DSHNC
- TYPE : EZ,K

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-AV720	CX-NAV720	SX–NAV704 SX-CR627	RC - 7AS09

- If requiring information about the CD mechanism, see Service Manual of 4ZG-1, S/M Code No. 09-983-249-3OT.

S/M Code No. 09–986–281–8FE

ELECTRICAL MAIN PARTS LIST - 1

NOTE: The characters in the suffix column indicate the part usage.

AHEM .....XX.....C.....
AKSE .....XX.....D.....
AEZE .....XX.....E.....

REF.NO	PARTS NO.	KANRI NO.	DESCRIPTION	SUFFIX
	87-NF5-210-010		GUIDE,LED	ABC
	88-NF6-203-010		GUIDE,LED JOG	ABC
	88-NF6-204-010		GUIDE,LED OPE	AB
	88-NF6-204-110		GUIDE,LED OPE	..C
	88-NF6-205-010		GUIDE,FL 40-150- 9	ABC
C 101	87-010-075-040		CAP,E 10-16 5L	ABC
C 105	87-010-178-080		CHIP CAP 1000P	ABC
C 109	87-010-194-080		CAP, CHIP 0.047	ABC
C 107	87-010-197-080		CAP, CHIP 0.01 DM	ABC
C 104	87-010-494-040		CAP,E 1-50 GAS	ABC
C 106	87-A10-189-040		CAP,E 220-10	ABC
C 114	87-010-182-080		C-CAP,S 2200P-50 B	ABC
C 115	87-010-182-080		C-CAP,S 2200P-50 B	ABC
C 112	87-010-312-080		C-CAP,S 15P-50 CH	ABC
C 113	87-010-316-080		C-CAP,S 33P-50 CH	ABC
C 111	87-010-320-080		CHIP CAP 68P	ABC
C 116	87-010-405-040		CAP,E 10-50	ABC
C 117	87-012-157-080		C-CAP,S 330P-50 CH	ABC
C 110	87-012-157-080		C-CAP,S 330P-50 CH	ABC
C 122	87-010-194-080		CAP, CHIP 0.047	ABC
C 121	87-010-194-080		CAP, CHIP 0.047	ABC
C 124	87-010-555-040		CAP,E 100-10 GAS	ABC
C 201	87-010-178-080		CHIP CAP 1000P	ABC
C 202	87-010-194-080		CAP, CHIP 0.047	ABC
C 204	87-010-404-040		CAP,E 4.7-50 SME	ABC
C 205	87-010-404-040		CAP,E 4.7-50 SME	ABC
C 203	87-010-408-040		CAP,E 47-50 SME	ABC
C 211	87-012-140-080		CAP 470P	..C
C 219	87-012-145-080		CAP, CHIP S 270P CH	AB
C 211	87-012-145-080		CAP, CHIP S 270P CH	AB
C 219	87-012-157-080		C-CAP,S 330P-50 CH	ABC
C 221	87-012-145-080		CAP, CHIP S 270P CH	AB
C 225	87-012-145-080		CAP, CHIP S 270P CH	AB
C 222	87-012-145-080		CAP, CHIP S 270P CH	AB
C 220	87-012-145-080		CAP, CHIP S 270P CH	AB
C 222	87-012-157-080		C-CAP,S 330P-50 CH	ABC
C 221	87-012-157-080		C-CAP,S 330P-50 CH	ABC
C 225	87-012-157-080		C-CAP,S 330P-50 CH	ABC
C 220	87-012-157-080		C-CAP,S 330P-50 CH	ABC
C 377	87-010-196-080		CHIP CAPACITOR,0.1-25	ABC
C 375	87-010-196-080		CHIP CAPACITOR,0.1-25	ABC
C 378	87-010-196-080		CHIP CAPACITOR,0.1-25	ABC
C 376	87-012-158-080		C-CAP,S 390P-50 CH	ABC
C 404	87-010-196-080		CHIP CAPACITOR,0.1-25	ABC
C 406	87-010-196-080		CHIP CAPACITOR,0.1-25	ABC
C 402	87-010-196-080		CHIP CAPACITOR,0.1-25	ABC
C 408	87-010-196-080		CHIP CAPACITOR,0.1-25	ABC
CN 101	87-099-720-010		CONN,30P TYK-B(P)	ABC
CN 302	87-A60-131-010		CONN,6P V FE	ABC
CN 701	87-A60-140-010		CONN,15P V FE	ABC
CN 801	87-A60-138-010		CONN,13P V FE	ABC
D 102	87-A40-269-080		C-DIODE,MC2836	ABC
D 105	87-A40-270-080		C-DIODE,MC2838	ABC
D 104	87-A40-270-080		C-DIODE,MC2838	ABC
D 103	87-A40-509-080		ZENER,MTZJ6.8C	ABC
D 317	87-A40-269-080		C-DIODE,MC2836	ABC
D 310	87-A40-269-080		C-DIODE,MC2836	ABC
D 314	87-A40-269-080		C-DIODE,MC2836	ABC
D 313	87-A40-269-080		C-DIODE,MC2836	ABC
D 311	87-A40-269-080		C-DIODE,MC2836	ABC
D 315	87-A40-269-080		C-DIODE,MC2836	ABC
D 316	87-A40-269-080		C-DIODE,MC2836	ABC
D 312	87-A40-269-080		C-DIODE,MC2836	ABC
D 318	87-A40-470-080		DIODE,1SS254	ABC
D 320	87-A40-470-080		DIODE,1SS254	ABC
D 701	87-A40-269-080		C-DIODE,MC2836	ABC
FL 201	88-NF6-611-010		FL,BJ610GK	ABC
IC 102	87-070-083-010		IC,GP1U281X	ABC
IC 101	88-NF7-690-010		C-IC,LC866560W-5G73	AB
IC 101	88-NF7-750-010		C-IC,LC866560W-5H26	..C
IC 371	87-A20-083-010		IC,BA3835S	ABC
IC 402	87-017-915-080		IC,BU4094BCF	ABC
IC 403	87-017-915-080		IC,BU4094BCF	ABC
IC 401	87-017-915-080		IC,BU4094BCF	ABC
IC 404	87-070-289-040		IC,BU 2092F	ABC
LED 411	87-070-201-080		LED,SLP9118C-51-S-T1	ABC
LED 414	87-070-201-080		LED,SLP9118C-51-S-T1	ABC
LED 415	87-070-201-080		LED,SLP9118C-51-S-T1	ABC
LED 412	87-070-201-080		LED,SLP9118C-51-S-T1	ABC
LED 413	87-070-201-080		LED,SLP9118C-51-S-T1	ABC
LED 419	87-070-281-080		LED,SLZ736A-25-S-T1	ABC
LED 417	87-070-281-080		LED,SLZ736A-25-S-T1	ABC
LED 421	87-070-281-080		LED,SLZ736A-25-S-T1	ABC
LED 427	87-070-281-080		LED,SLZ736A-25-S-T1	ABC

ELECTRICAL MAIN PARTS LIST - 2

LED	425	87-070-281-080	LED,SLZ736A-25-S-T1	ABC
LED	423	87-070-281-080	LED,SLZ736A-25-S-T1	ABC
LED	428	87-A40-446-040	LED,SLP-7131F-81H-S-T1 P-GRN	AB
LED	429	87-A40-446-040	LED,SLP-7131F-81H-S-T1 P-GRN	AB
LED	428	87-A40-448-080	LED,SLR-56PTT31 GRN	..C
LED	429	87-A40-448-080	LED,SLR-56PTT31 GRN	..C
LED	438	87-070-197-080	LED,SLP7118C-51-S-T1	ABC
LED	439	87-070-197-080	LED,SLP7118C-51-S-T1	ABC
LED	437	87-A40-446-040	LED,SLP-7131F-81H-S-T1 P-GRN	AB
LED	434	87-A40-446-040	LED,SLP-7131F-81H-S-T1 P-GRN	AB
LED	433	87-A40-446-040	LED,SLP-7131F-81H-S-T1 P-GRN	AB
LED	431	87-A40-446-040	LED,SLP-7131F-81H-S-T1 P-GRN	AB
LED	430	87-A40-446-040	LED,SLP-7131F-81H-S-T1 P-GRN	AB
LED	436	87-A40-446-040	LED,SLP-7131F-81H-S-T1 P-GRN	AB
LED	435	87-A40-446-040	LED,SLP-7131F-81H-S-T1 P-GRN	AB
LED	432	87-A40-446-040	LED,SLP-7131F-81H-S-T1 P-GRN	AB
LED	437	87-A40-448-080	LED,SLR-56PTT31 GRN	..C
LED	433	87-A40-448-080	LED,SLR-56PTT31 GRN	..C
LED	430	87-A40-448-080	LED,SLR-56PTT31 GRN	..C
LED	432	87-A40-448-080	LED,SLR-56PTT31 GRN	..C
LED	435	87-A40-448-080	LED,SLR-56PTT31 GRN	..C
LED	436	87-A40-448-080	LED,SLR-56PTT31 GRN	..C
LED	434	87-A40-448-080	LED,SLR-56PTT31 GRN	..C
LED	431	87-A40-448-080	LED,SLR-56PTT31 GRN	..C
LED	443	87-070-197-080	LED,SLP7118C-51-S-T1	ABC
LED	442	87-070-197-080	LED,SLP7118C-51-S-T1	ABC
LED	440	87-070-197-080	LED,SLP7118C-51-S-T1	ABC
LED	441	87-070-197-080	LED,SLP7118C-51-S-T1	ABC
LED	446	87-070-278-010	LED,SLZ-738A-24-S	ABC
LED	449	87-070-278-010	LED,SLZ-738A-24-S	ABC
LED	444	87-070-278-010	LED,SLZ-738A-24-S	ABC
LED	447	87-070-278-010	LED,SLZ-738A-24-S	ABC
LED	448	87-070-290-010	LED,SLZ 936-30-S	ABC
LED	445	87-070-290-010	LED,SLZ 936-30-S	ABC
LED	453	87-A90-825-040	LED,SLP-9131C-81H-S-T1 RED	ABC
LED	458	87-A90-825-040	LED,SLP-9131C-81H-S-T1 RED	ABC
LED	455	87-A90-825-040	LED,SLP-9131C-81H-S-T1 RED	ABC
LED	451	87-A90-825-040	LED,SLP-9131C-81H-S-T1 RED	ABC
LED	450	87-A90-825-040	LED,SLP-9131C-81H-S-T1 RED	ABC
LED	457	87-A90-825-040	LED,SLP-9131C-81H-S-T1 RED	ABC
LED	452	87-A90-825-040	LED,SLP-9131C-81H-S-T1 RED	ABC
LED	454	87-A90-825-040	LED,SLP-9131C-81H-S-T1 RED	ABC
LED	456	87-A90-825-040	LED,SLP-9131C-81H-S-T1 RED	ABC
Q	102	87-026-263-080	C-TR,RN1410	ABC
Q	104	87-026-610-080	TR,KTC3198GR	ABC
Q	103	87-A30-071-080	C-TR,RT1N 144C	ABC
Q	101	87-A30-087-080	C-FET,2SK2158	ABC
Q	301	87-A30-076-080	C-TR,2SC3052F	ABC
Q	407	87-026-580-080	C-TR,DTA123JK	ABC
Q	406	87-026-580-080	C-TR,DTA123JK	ABC
Q	403	87-026-580-080	C-TR,DTA123JK	ABC
Q	404	87-026-580-080	C-TR,DTA123JK	ABC
Q	405	87-026-580-080	C-TR,DTA123JK	ABC
Q	402	87-A30-073-080	C-TR,RT1N 141C	ABC
Q	401	87-A30-073-080	C-TR,RT1N 141C	ABC
Q	408	87-A30-075-080	C-TR,2SA1235F	ABC
Q	419	87-A30-074-080	C-TR,RT1P 141C	ABC
Q	421	87-A30-074-080	C-TR,RT1P 141C	ABC
Q	423	87-A30-074-080	C-TR,RT1P 141C	ABC
Q	420	87-A30-074-080	C-TR,RT1P 141C	ABC
Q	422	87-A30-074-080	C-TR,RT1P 141C	ABC
Q	424	87-A30-074-080	C-TR,RT1P 141C	ABC
Q	704	87-A30-073-080	C-TR,RT1N 141C	ABC
Q	703	87-A30-085-070	C-TR,CSA1362GR	AB
Q	702	87-A30-085-070	C-TR,CSA1362GR	AB
Q	702	87-A30-159-080	C-TR,KTA1298Y	..C
Q	703	87-A30-159-080	C-TR,KTA1298Y	..C
Q	701	89-112-965-080	TR,2SA1296 (0.75W)	ABC
S	102	87-A90-535-010	SW,RTRY EC16B24304	ABC
S	101	87-A90-792-010	SW,RTRY EC12E12244 ENCORDER	AB
S	101	87-A90-894-010	SW,RTRY EC12E12444	..C
S	349	87-A90-095-080	SW,TACT EVQ11G04M	ABC
S	350	87-A90-095-080	SW,TACT EVQ11G04M	ABC
S	351	87-A90-095-080	SW,TACT EVQ11G04M	ABC
S	354	87-A90-095-080	SW,TACT EVQ11G04M	ABC
S	352	87-A90-095-080	SW,TACT EVQ11G04M	ABC
S	353	87-A90-095-080	SW,TACT EVQ11G04M	ABC
S	355	87-A90-095-080	SW,TACT EVQ11G04M	ABC
X	101	87-A70-070-080	VIB,CER 5.76MHZ CRHF	ABC
C	602	87-010-186-080	CAP,CHIP 4700P	ABC
C	605	87-010-196-080	CHIP CAPACITOR,0.1-25	ABC
C	608	87-010-196-080	CHIP CAPACITOR,0.1-25	ABC
C	607	87-010-315-080	C-CAP,S 27P-50 CH	..C
C	607	87-010-321-080	CHIP CAPACITOR,82P(J)	AB
C	606	87-010-322-080	C-CAP,S 100P-50 CH	ABC
C	601	87-010-405-040	CAP,E 10-50	ABC
C	603	87-010-405-040	CAP,E 10-50	ABC
C	604	87-010-406-040	CAP,E 22-50 SME	ABC
C	609	87-010-545-040	CAP,E 0.22-50 SME	ABC
C	611	87-010-177-080	C-CAP,S 820P-50 SL	ABC
C	614	87-010-248-040	CAP,E 220-10 SME	ABC
C	653	87-010-196-080	CHIP CAPACITOR,0.1-25	ABC

ELECTRICAL MAIN PARTS LIST - 3

C	652	87-010-196-080	CHIP CAPACITOR,0.1-25	ABC.....
C	651	87-010-401-040	CAP,E 1-50 SME	ABC.....
CN	501	87-A60-143-010	CONN,18P V FE	ABC.....
D	601	87-A40-470-080	DIODE,1SS254	ABC.....
D	651	87-A40-470-080	DIODE,1SS254	ABC.....
FB	601	87-008-372-080	FILTER, EMI BL OIRNI	ABC.....
IC	601	87-017-888-080	IC,NJM4558MD	ABC.....
J	602	87-A60-284-010	JACK,3.5MO (MSC)	AB.....
J	601	87-A60-284-010	JACK,3.5MO (MSC)	AB.....
J	602	87-A60-651-010	JACK,3.5MONO	..C.....
J	601	87-A60-651-010	JACK,3.5MONO	..C.....
Q	602	87-A30-075-080	C-TR,2SA1235F	ABC.....
Q	603	87-A30-087-080	C-FET,2SK2158	ABC.....
Q	601	87-A30-087-080	C-FET,2SK2158	ABC.....
Q	651	87-A30-076-080	C-TR,2SC3052F	ABC.....
C	902	87-010-196-080	CHIP CAPACITOR,0.1-25	ABC.....
C	901	87-010-263-040	CAP,E 100-10	ABC.....
C	903	87-010-313-080	CAP, CHIP 18P	ABC.....
C	905	87-010-400-040	CAP,E 0.47-50	ABC.....
C	904	87-012-155-080	C-CAP 180P-50CH	ABC.....
D	901	87-070-136-080	ZENER,MTZJ5.1B	ABC.....
D	902	87-A40-470-080	DIODE,1SS254	ABC.....
IC	901	88-NF5-615-040	C-IC,MSM6654A-521GS-KR1	ABC.....
L	901	87-007-340-010	COIL,CLOCK 4.19MHZ	ABC.....
FC	101	87-A90-505-080	FUSE CLAMP,TP00351-51	.B.DE.....
FC	102	87-A90-505-080	FUSE CLAMP,TP00351-51	.B.DE.....
PR	103	87-026-682-080	PROTECTOR,10A 60V491	A.CDE.....
PR	101	87-026-682-080	PROTECTOR,10A 60V491	A.CDE.....
PR	102	87-026-682-080	PROTECTOR,10A 60V491	A.CDE.....
PR	104	87-026-682-080	PROTECTOR,10A 60V491	A.CDE.....
PR	103	87-026-691-080	FUSE,10A 125V 251	.B.....
PR	104	87-026-691-080	FUSE,10A 125V 251	.B.....
PR	102	87-026-691-080	FUSE,10A 125V 251	.B.....
PR	101	87-026-691-080	FUSE,10A 125V 251	.B.....
PR	105	87-A90-195-080	PROTECTOR 7A 125V 49	A.CDE.....
PR	106	87-A90-195-080	PROTECTOR 7A 125V 49	A.CDE.....
PR	106	87-A90-210-080	FUSE,7A 125V 251	.B.....
PR	105	87-A90-210-080	FUSE,7A 125V 251	.B.....
T	101	87-A60-317-010	TERMINAL, 1P MSC	.B.DE.....
T	102	87-A60-317-010	TERMINAL, 1P MSC	.B.DE.....
W	104	85-NF5-628-010	F-CABLE 7P-2.5	ABCDE.....
WH	101	87-A90-460-010	HLDR,WIRE 2.5-7P	ABCDE.....
		87-067-579-010	TAPPING SCREW, BVT2+3-8	A.C.....
		87-067-703-010	TAPPING SCREW, BVT2+3-10	ABCDE.....
C	109	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDE.....
C	108	87-012-368-080	C-CAP,S 0.1-50 F	ABCDE.....
C	107	87-012-368-080	C-CAP,S 0.1-50 F	ABCDE.....
C	105	87-012-368-080	C-CAP,S 0.1-50 F	ABCDE.....
C	106	87-012-368-080	C-CAP,S 0.1-50 F	ABCDE.....
C	101	87-016-520-090	CAP,E 3300-65	A.C.E.....
C	102	87-016-520-090	CAP,E 3300-65	A.C.E.....
C	104	87-016-658-090	CAP,E 4700-35 SMG	ABCDE.....
C	103	87-016-658-090	CAP,E 4700-35 SMG	ABCDE.....
C	112	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDE.....
C	111	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDE.....
C	110	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDE.....
C	119	87-010-260-080	CAP, ELECT 47-25V	ABCDE.....
C	118	87-010-263-080	CAP, ELECT 100-10V	ABCDE.....
C	113	87-010-385-080	CAP, ELECT 220-25V	A.CDE.....
C	114	87-010-385-080	CAP, ELECT 220-25V	A.CDE.....
C	115	87-010-385-080	CAP, ELECT 220-25V	A.CDE.....
C	116	87-010-385-080	CAP, ELECT 220-25V	A.CDE.....
C	117	87-010-430-080	CAP, ELECT 100-63	ABCDE.....
C	124	87-010-112-080	CAP, ELECT 100-16V	ABCDE.....
C	125	87-010-235-080	CAP,E 470-16 SME	ABCDE.....
C	123	87-010-247-080	CAP, ELECT 100-50V	ABCDE.....
C	120	87-010-403-080	CAP, ELECT 3.3-50V	ABCDE.....
C	121	87-012-140-080	CAP 470P	ABCDE.....
C	130	87-010-194-080	CAP, CHIP 0.047	...DE.....
C	131	87-010-194-080	CAP, CHIP 0.047	...DE.....
C	152	87-010-917-090	CAP,E 3300-50 M SMG	.B.D.....
C	151	87-010-917-090	CAP,E 3300-50 M SMG	.B.D.....
D	102	87-017-654-060	DIODE,GBU6J	A.C.....
D	109	87-070-274-080	DIODE,1N4003 SEM	ABCDE.....
D	108	87-070-274-080	DIODE,1N4003 SEM	ABCDE.....
D	106	87-070-274-080	DIODE,1N4003 SEM	ABCDE.....
D	107	87-070-274-080	DIODE,1N4003 SEM	ABCDE.....
D	101	87-A40-115-060	DIODE,RS603M	ABCDE.....
D	101	87-A40-116-060	DIODE,RS403L-B-D-51	.B.D.....
D	104	87-A40-269-080	C-DIODE,MC2836	ABCDE.....
D	105	87-A40-270-080	C-DIODE,MC2838	ABCDE.....
D	103	87-A40-470-080	DIODE,1SS254	ABCDE.....
D	116	87-A40-269-080	C-DIODE,MC2836	ABCDE.....
D	110	87-A40-341-080	ZENER,MTZJ 36 A	ABCDE.....
D	112	87-A40-345-080	ZENER,MTZJ10C	ABCDE.....
D	120	87-A40-004-080	ZENER,MTZJ16A	ABCDE.....
Q	103	87-026-610-080	TR,KTC3198GR	ABCDE.....
Q	107	87-A30-075-080	C-TR,2SA1235F	ABCDE.....
Q	109	87-A30-075-080	C-TR,2SA1235F	ABCDE.....
Q	104	87-A30-076-080	C-TR,2SC3052F	ABCDE.....
Q	106	87-A30-076-080	C-TR,2SC3052F	ABCDE.....
Q	108	87-A30-076-080	C-TR,2SC3052F	ABCDE.....

ELECTRICAL MAIN PARTS LIST - 4

Q	105	87-A30-196-080	TR,2SC4115SRS	ABCDE.....
Q	102	89-213-702-010	TR,2SB1370 (1.8W)	ABCDE.....
Q	101	89-213-702-010	TR,2SB1370 (1.8W)	ABCDE.....
Q	112	87-026-609-080	TR,KTA1266GR	ABCDE.....
Q	111	87-026-609-080	TR,KTA1266GR	ABCDE.....
Q	114	87-A30-075-080	C-TR,2SA1235F	ABCDE.....
Q	110	87-A30-076-080	C-TR,2SC3052F	ABCDE.....
R	123	87-A00-261-080	RES,M/F 0.56-1W J	.B.....
RY	101	87-045-389-010	RELAY,OSA-SS-212DM5	AB.DE.....
RY	101	87-A90-464-010	RELAY, DG12D2-O(M)	..C.....
WH	102	87-A90-460-010	HLDR,WIRE 2.5-7P	ABCDE.....
C	209	87-010-546-080	CAP, ELECT 0.33-50V	ABCDE.....
C	205	87-010-805-080	CAP, S 1-16	..CDE.....
C	206	87-010-805-080	CAP, S 1-16	..CDE.....
C	204	87-016-299-080	CAP,E 10-100 SME	..CDE.....
C	211	87-010-182-080	C-CAP,S 2200P-50 B	...DE.....
C	212	87-010-182-080	C-CAP,S 2200P-50 B	...DE.....
C	212	87-010-183-080	C-CAP,S 2700P-50 B	ABC.....
C	211	87-010-183-080	C-CAP,S 2700P-50 B	ABC.....
C	213	87-010-186-080	CAP,CHIP 4700P	ABCDE.....
C	214	87-010-186-080	CAP,CHIP 4700P	ABCDE.....
C	216	87-010-403-080	CAP, ELECT 3.3-50V	ABCDE.....
C	215	87-010-403-080	CAP, ELECT 3.3-50V	ABCDE.....
C	210	87-010-546-080	CAP, ELECT 0.33-50V	ABCDE.....
C	219	87-010-805-080	CAP, S 1-16	..CDE.....
C	218	87-A10-899-080	CAP,E 47-25 M BP SME	ABCDE.....
C	217	87-A10-899-080	CAP,E 47-25 M BP SME	ABCDE.....
C	225	87-010-176-080	C-CAP,S 680P-50 SL	...DE.....
C	226	87-010-176-080	C-CAP,S 680P-50 SL	...DE.....
C	221	87-010-191-080	C-CAP,S 0.015-50 F	...DE.....
C	222	87-010-191-080	C-CAP,S 0.015-50 F	...DE.....
C	228	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDE.....
C	224	87-010-197-080	CAP, CHIP 0.01 DM	ABCDE.....
C	223	87-010-197-080	CAP, CHIP 0.01 DM	ABCDE.....
C	221	87-010-213-080	C-CAP,S 0.015-50 B	.....
C	222	87-010-213-080	C-CAP,S 0.015-50 B	.....
C	220	87-010-805-080	CAP, S 1-16	..CDE.....
C	229	87-A10-812-080	C-CAP,S 220P-200 J CH	ABCDE.....
C	233	87-010-544-080	CAP, ELECT 0.1-50V	ABCDE.....
C	234	87-010-544-080	CAP, ELECT 0.1-50V	ABCDE.....
C	238	87-012-368-080	C-CAP,S 0.1-50 F	ABCDE.....
C	239	87-012-368-080	C-CAP,S 0.1-50 F	ABCDE.....
C	237	87-012-368-080	C-CAP,S 0.1-50 F	ABCDE.....
C	230	87-A10-812-080	C-CAP,S 220P-200 J CH	ABCDE.....
C	247	87-010-178-080	CHIP CAP 1000P	ABCDE.....
C	248	87-010-178-080	CHIP CAP 1000P	ABCDE.....
C	241	87-010-318-080	C-CAP,S 47P-50 CH	.....
C	242	87-010-318-080	C-CAP,S 47P-50 CH	.....
C	240	87-012-368-080	C-CAP,S 0.1-50 F	ABCDE.....
C	280	87-010-188-080	CAP,CHIP 6800P	ABCDE.....
C	299	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDE.....
D	213	87-070-136-080	ZENER,MTZJ5.1B	ABCDE.....
D	214	87-070-136-080	ZENER,MTZJ5.1B	ABCDE.....
D	221	87-A40-270-080	C-DIODE,MC2838	ABCDE.....
D	220	87-A40-345-080	ZENER,MTZJ10C	ABCDE.....
D	224	87-A40-470-080	DIODE,1SS254	ABCDE.....
D	223	87-A40-470-080	DIODE,1SS254	ABCDE.....
D	226	87-A40-488-080	DIODE,1SS244	ABCDE.....
D	225	87-A40-488-080	DIODE,1SS244	ABCDE.....
D	231	87-A40-184-090	DIODE,RK34(F)	A.C.E.....
D	232	87-A40-184-090	DIODE,RK34(F)	A.C.E.....
D	242	87-070-178-090	DIODE,1N5402-BD54	.B.D.....
D	241	87-070-178-090	DIODE,1N5402-BD54	.B.D.....
J	203	87-033-240-010	TERMINAL,SP 4P32SV1-05	ABCDE.....
J	211	87-A60-483-010	JACK,DIA6.3 BLK ST W/S KM	ABCDE.....
L	202	87-003-383-010	COIL,1UH-S	ABCDE.....
L	201	87-003-383-010	COIL,1UH-S	ABCDE.....
Q	214	87-A30-076-080	C-TR,2SC3052F	ABCDE.....
Q	213	87-A30-076-080	C-TR,2SC3052F	ABCDE.....
Q	212	87-A30-076-080	C-TR,2SC3052F	ABCDE.....
Q	211	87-A30-076-080	C-TR,2SC3052F	ABCDE.....
Q	218	87-A30-097-010	TR,FN 1016	A.C.E.....
Q	217	87-A30-097-010	TR,FN 1016	A.C.E.....
Q	219	87-A30-098-010	TR,FP 1016	A.C.E.....
Q	217	87-A30-137-010	TR,2SD2494	.B.D.....
Q	218	87-A30-137-010	TR,2SD2494	.B.D.....
Q	219	87-A30-138-010	TR,2SB1625	.B.D.....
Q	216	87-A30-190-080	TR,CC5551	ABCDE.....
Q	215	87-A30-190-080	TR,CC5551	ABCDE.....
Q	227	87-A30-072-080	C-TR,RT1P 144C	ABCDE.....
Q	226	87-A30-075-080	C-TR,2SA1235F	ABCDE.....
Q	225	87-A30-076-080	C-TR,2SC3052F	ABCDE.....
Q	220	87-A30-098-010	TR,FP 1016	A.C.E.....
Q	222	87-A30-106-070	C-TR,CMBT5551	ABCDE.....
Q	221	87-A30-106-070	C-TR,CMBT5551	ABCDE.....
Q	220	87-A30-138-010	TR,2SB1625	.B.D.....
Q	223	87-A30-162-010	FET,2SK2937	ABCDE.....
Q	224	87-A30-162-010	FET,2SK2937	ABCDE.....
Q	291	87-A30-074-080	C-TR,RT1P 141C	..CDE.....
Q	290	87-A30-107-070	C-TR,CMBT5401	ABCDE.....
Q	295	87-A30-142-040	C-TR,DTA123EKA	..CDE.....
Q	295	87-A30-221-040	C-TR,DTA114WK	AB.....

ELECTRICAL MAIN PARTS LIST - 5

R	239	87-A00-257-080	RES,M/F 0.15-1W J	.B.D.....
R	237	87-A00-257-080	RES,M/F 0.15-1W J	.B.D.....
R	238	87-A00-257-080	RES,M/F 0.15-1W J	.B.D.....
R	239	87-A00-262-080	RES,M/F 0.15-2W J	A.C.E.....
R	237	87-A00-262-080	RES,M/F 0.15-2W J	A.C.E.....
R	238	87-A00-262-080	RES,M/F 0.15-2W J	A.C.E.....
R	240	87-A00-257-080	RES,M/F 0.15-1W J	.B.D.....
R	240	87-A00-262-080	RES,M/F 0.15-2W J	A.C.E.....
TH	201	87-A90-221-080	C-THMS,100K	..CDE.....
TH	202	87-A90-221-080	C-THMS,100K	..CDE.....
C	309	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDE.....
C	304	87-012-157-080	C-CAP,S 330P-50 CH	ABCDE.....
C	303	87-012-157-080	C-CAP,S 330P-50 CH	ABCDE.....
C	315	87-010-178-080	CHIP CAP 1000P	ABCDE.....
C	316	87-010-178-080	CHIP CAP 1000P	ABCDE.....
C	313	87-010-179-080	CAP,CHIP S B1200P	...DE.....
C	314	87-010-179-080	CAP,CHIP S B1200P	...DE.....
C	310	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDE.....
C	312	87-010-198-080	CAP, CHIP 0.022	ABCDE.....
C	311	87-010-198-080	CAP, CHIP 0.022	ABCDE.....
C	319	87-012-141-080	CHIP-CAPACITOR,0.22-16F	...DE.....
C	318	87-012-142-080	CAP, S 0.33-16	...DE.....
C	317	87-012-142-080	CAP, S 0.33-16	...DE.....
C	324	87-010-260-080	CAP, ELECT 47-25V	ABCDE.....
C	325	87-010-370-080	CAP,E 330-6.3 SME	ABCDE.....
C	328	87-010-404-080	CAP, ELECT 4.7-50V	ABCDE.....
C	327	87-010-404-080	CAP, ELECT 4.7-50V	ABCDE.....
C	322	87-012-141-080	CHIP-CAPACITOR,0.22-16F	...DE.....
C	321	87-012-141-080	CHIP-CAPACITOR,0.22-16F	...DE.....
C	320	87-012-141-080	CHIP-CAPACITOR,0.22-16F	...DE.....
C	321	87-016-492-080	C-CAP,S 0.33-16 FZ	ABC.....
C	322	87-016-492-080	C-CAP,S 0.33-16 FZ	ABC.....
C	335	87-010-401-080	CAP, ELECT 1-50V	ABCDE.....
C	336	87-010-401-080	CAP, ELECT 1-50V	ABCDE.....
C	354	87-010-175-080	CAP 560P	ABCDE.....
C	359	87-010-183-080	C-CAP,S 2700P-50 B	ABCDE.....
C	358	87-010-183-080	C-CAP,S 2700P-50 B	ABCDE.....
C	357	87-010-197-080	CAP, CHIP 0.01 DM	ABCDE.....
C	356	87-010-260-080	CAP, ELECT 47-25V	ABCDE.....
C	352	87-012-140-080	CAP 470P	ABCDE.....
C	351	87-012-140-080	CAP 470P	ABCDE.....
C	355	87-012-349-080	C-CAP,S 1000P-50 CH	ABCDE.....
C	360	87-010-183-080	C-CAP,S 2700P-50 B	ABCDE.....
C	371	87-010-177-080	C-CAP,S 820P-50 SL	...DE.....
C	372	87-010-177-080	C-CAP,S 820P-50 SL	...DE.....
C	379	87-010-382-080	CAP, ELECT 22-25V	ABC.....
C	376	87-010-545-080	CAP, ELECT 0.22-50V	...DE.....
C	375	87-010-545-080	CAP, ELECT 0.22-50V	...DE.....
C	374	87-016-083-080	C-CAP,S 0.15-16 RK	ABC.....
C	373	87-016-083-080	C-CAP,S 0.15-16 RK	ABC.....
C	385	87-010-184-080	CHIP CAPACITOR 3300P(K)	...DE.....
C	381	87-010-197-080	CAP, CHIP 0.01 DM	ABCDE.....
C	383	87-010-197-080	CAP, CHIP 0.01 DM	ABCDE.....
C	382	87-010-312-080	C-CAP,S 15P-50 CH	ABC.....
C	382	87-010-318-080	C-CAP,S 47P-50 CH	ABCDE.....
C	380	87-010-382-080	CAP, ELECT 22-25V	ABC.....
C	384	87-010-402-080	CAP, ELECT 2.2-50V	ABCDE.....
C	393	87-010-319-080	C-CAP,S 56P-50 CH	..C.....
C	394	87-010-319-080	C-CAP,S 56P-50 CH	..C.....
C	391	87-010-319-080	C-CAP,S 56P-50 CH	..C.....
C	392	87-010-319-080	C-CAP,S 56P-50 CH	..C.....
C	393	87-012-145-080	CAP, CHIP S 270P CH	ABCDE.....
C	394	87-012-145-080	CAP, CHIP S 270P CH	ABCDE.....
C	392	87-012-145-080	CAP, CHIP S 270P CH	ABCDE.....
C	391	87-012-145-080	CAP, CHIP S 270P CH	ABCDE.....
CN	301	87-099-827-010	CONN,3P S2M-3W	ABCDE.....
CN	351	87-099-832-010	CONN,8P S2M-8W	ABCDE.....
D	352	87-A40-269-080	C-DIODE,MC2836	ABCDE.....
D	351	87-A40-470-080	DIODE,1SS254	ABCDE.....
FB	301	87-008-372-080	FILTER, EMI BL OIRNI	...DE.....
IC	302	87-A20-355-010	IC,CXA1553P	...DE.....
IC	303	87-A20-783-040	C-IC,BA7762AFS	ABCDE.....
L	302	87-A50-049-010	COIL,TRAP 85K(COI)	ABCDE.....
L	301	87-A50-049-010	COIL,TRAP 85K(COI)	ABCDE.....
L	351	87-007-342-010	COIL,OSC 85K BIAS	ABCDE.....
Q	358	87-026-610-080	TR,KTC3198GR	ABCDE.....
Q	359	87-026-610-080	TR,KTC3198GR	ABCDE.....
Q	357	87-026-610-080	TR,KTC3198GR	ABCDE.....
Q	356	87-A30-076-080	C-TR,2SC3052F	ABCDE.....
Q	353	87-A30-087-080	C-FET,2SK2158	ABCDE.....
Q	354	87-A30-087-080	C-FET,2SK2158	ABCDE.....
Q	351	87-A30-087-080	C-FET,2SK2158	ABCDE.....
Q	355	87-A30-105-080	C-TR,RT1P 441C	ABCDE.....
Q	383	87-A30-075-080	C-TR,2SA1235F	ABC.....
SFR	305	87-A90-433-080	SFR,50K H NVZ6TLTA	ABCDE.....
SFR	306	87-A90-433-080	SFR,50K H NVZ6TLTA	ABCDE.....
SFR	301	87-A90-557-080	SFR,33K H HOKU	...DE.....
SFR	302	87-A90-557-080	SFR,33K H HOKU	...DE.....
SFR	304	87-A90-557-080	SFR,33K H HOKU	...DE.....
SFR	303	87-A90-557-080	SFR,33K H HOKU	...DE.....
C	404	87-010-182-080	C-CAP,S 2200P-50 B	ABCDE.....
C	403	87-010-182-080	C-CAP,S 2200P-50 B	ABCDE.....

ELECTRICAL MAIN PARTS LIST - 6

C	405	87-010-193-080	CHIP CAPACITOR,0.033	ABCDE.....
C	406	87-010-193-080	CHIP CAPACITOR,0.033	ABCDE.....
C	409	87-010-380-080	CAP, ELECT 47-16V	ABCDE.....
C	402	87-010-401-080	CAP, ELECT 1-50V	..CDE.....
C	401	87-010-401-080	CAP, ELECT 1-50V	..CDE.....
C	408	87-010-405-080	CAP, ELECT 10-50V	ABCDE.....
C	407	87-010-405-080	CAP, ELECT 10-50V	ABCDE.....
C	412	87-010-112-080	CAP, ELECT 100-16V	ABCDE.....
C	416	87-010-184-080	CHIP CAPACITOR 3300P(K)	AB.....
C	415	87-010-184-080	CHIP CAPACITOR 3300P(K)	AB.....
C	415	87-010-185-080	C-CAP,S 3900P-50 B	..C.....
C	416	87-010-185-080	C-CAP,S 3900P-50 B	..C.....
C	415	87-010-187-080	CAP CHIP S5600P	...DE.....
C	416	87-010-187-080	CAP CHIP S5600P	...DE.....
C	410	87-010-380-080	CAP, ELECT 47-16V	ABCDE.....
C	411	87-010-405-080	CAP, ELECT 10-50V	ABCDE.....
IC	401	87-A20-804-040	C-IC,NJM2152M	ABCDE.....
C	516	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDE.....
C	552	87-010-263-080	CAP, ELECT 100-10V	..CDE.....
C	553	87-010-380-080	CAP, ELECT 47-16V	..CDE.....
C	551	87-010-401-080	CAP, ELECT 1-50V	..CDE.....
CN	551	87-A60-109-010	CONN,2P V S2M-2W	..CDE.....
Q	552	87-026-609-080	TR,KTA1266GR	..CDE.....
Q	551	87-A30-076-080	C-TR,2SC3052F	..CDE.....
C	457	87-010-404-080	CAP, ELECT 4.7-50V	ABCDE.....
C	458	87-010-404-080	CAP, ELECT 4.7-50V	ABCDE.....
C	703	87-010-197-080	CAP, CHIP 0.01 DM	ABCDE.....
C	704	87-010-197-080	CAP, CHIP 0.01 DM	ABCDE.....
C	701	87-010-381-080	CAP, ELECT 330-16V	ABCDE.....
C	702	87-010-404-080	CAP, ELECT 4.7-50V	ABCDE.....
C	712	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDE.....
C	713	87-010-197-080	CAP, CHIP 0.01 DM	ABCDE.....
C	714	87-010-197-080	CAP, CHIP 0.01 DM	ABCDE.....
C	711	87-010-263-080	CAP, ELECT 100-10V	ABCDE.....
C	715	87-010-322-080	C-CAP,S 100P-50 CH	ABCDE.....
C	723	87-010-178-080	CHIP CAP 1000P	ABCDE.....
C	725	87-010-178-080	CHIP CAP 1000P	ABCDE.....
C	727	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDE.....
C	728	87-010-248-080	CAP, ELECT 220-10V	ABCDE.....
C	721	87-010-312-080	C-CAP,S 15P-50 CH	ABCDE.....
C	722	87-010-312-080	C-CAP,S 15P-50 CH	ABCDE.....
D	721	87-A40-234-080	ZENER,MTZJ5.6A	ABCDE.....
D	722	87-A40-470-080	DIODE,1SS254	...DE.....
IC	721	86-NFZ-655-010	IC,LC72131D(Z)	ABCDE.....
Q	711	87-A30-196-080	TR,2SC4115SRS	ABCDE.....
X	721	87-A70-061-010	VIB,XTAL 4.500MHZ CSA-309	ABCDE.....
C	758	87-010-149-080	C-CAP,S 5P-50 CH	ABCDE.....
C	755	87-010-197-080	CAP, CHIP 0.01 DM	ABCDE.....
C	756	87-010-197-080	CAP, CHIP 0.01 DM	ABCDE.....
C	757	87-010-318-080	C-CAP,S 47P-50 CH	ABCDE.....
C	759	87-012-154-080	C-CAP,S 150P-50 CH	..C.....
C	759	87-012-156-080	C-CAP,S 220P-50 CH	AB.....
C	763	87-010-194-080	CAP, CHIP 0.047	ABCDE.....
C	766	87-010-197-080	CAP, CHIP 0.01 DM	ABCDE.....
C	768	87-010-197-080	CAP, CHIP 0.01 DM	ABCDE.....
C	765	87-010-197-080	CAP, CHIP 0.01 DM	ABCDE.....
C	764	87-010-319-080	C-CAP,S 56P-50 CH	ABC.....
C	767	87-010-405-080	CAP, ELECT 10-50V	ABCDE.....
C	769	87-010-408-080	CAP, ELECT 47-50V	ABCDE.....
C	760	87-012-154-080	C-CAP,S 150P-50 CH	..C.....
C	760	87-012-156-080	C-CAP,S 220P-50 CH	AB.....
C	772	87-010-194-080	CAP, CHIP 0.047	ABCDE.....
C	773	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDE.....
C	774	87-010-263-080	CAP, ELECT 100-10V	ABCDE.....
C	777	87-010-400-080	CAP, ELECT 0.47-50V	ABCDE.....
C	779	87-010-401-080	CAP, ELECT 1-50V	ABCDE.....
C	778	87-010-401-080	CAP, ELECT 1-50V	ABCDE.....
C	775	87-010-404-080	CAP, ELECT 4.7-50V	ABCDE.....
C	771	87-010-407-080	CAP, ELECT 33-50V	ABCDE.....
C	770	87-015-821-080	C-CAP 0.047	ABCDE.....
C	788	87-010-184-080	CHIP CAPACITOR 3300P(K)	.....
C	787	87-010-184-080	CHIP CAPACITOR 3300P(K)	.....
C	787	87-010-186-080	CAP,CHIP 4700P	...DE.....
C	788	87-010-186-080	CAP,CHIP 4700P	...DE.....
C	784	87-010-197-080	CAP, CHIP 0.01 DM	ABCDE.....
C	786	87-010-403-080	CAP, ELECT 3.3-50V	ABCDE.....
C	785	87-010-403-080	CAP, ELECT 3.3-50V	ABCDE.....
C	782	87-010-405-080	CAP, ELECT 10-50V	ABCDE.....
C	781	87-010-405-080	CAP, ELECT 10-50V	ABCDE.....
C	783	87-015-819-080	CAPACITOR,0.01	ABCDE.....
C	793	87-010-177-080	C-CAP,S 820P-50 SL	ABC.....
C	793	87-010-178-080	CHIP CAP 1000P	.....
C	797	87-010-179-080	CAP,CHIP S B1200P	ABCDE.....
C	798	87-010-179-080	CAP,CHIP S B1200P	ABCDE.....
C	793	87-010-180-080	C-CER 1500P	...DE.....
C	793	87-010-181-080	CAP,CHIP S 1800P	AB.D.....
C	799	87-010-194-080	CAP, CHIP 0.047	ABCDE.....
C	796	87-010-403-080	CAP, ELECT 3.3-50V	ABCDE.....
C	791	87-010-405-080	CAP, ELECT 10-50V	ABCDE.....
C	794	87-010-406-080	CAP, ELECT 22-50	ABCDE.....
C	795	87-010-596-080	CAP, S 0.047-16	ABCDE.....
D	773	87-A40-470-080	DIODE,1SS254	ABCDE.....

ELECTRICAL MAIN PARTS LIST - 7

IC	771	87-A20-438-010	IC,LA1837	AB.....
IC	771	87-A20-913-010	IC,LA1837NL	..CDE...
L	771	87-A50-266-010	COIL,FM DET-2N(TOK)	ABCDE...
L	772	87-A90-052-010	FLTR,CFMT-450A(TOK)	..C.....
L	772	87-A90-733-010	FLTR,PCFAZH-450 (TOK)	AB.DE...
L	781	87-005-847-080	COIL,2.2UH(CECS)	ABCDE...
L	792	87-A50-027-010	COIL,1 POLE MPX(TOK)	...DE...
L	791	87-A50-027-010	COIL,1 POLE MPX(TOK)	...DE...
X	771	87-030-354-010	VIB,CF BFU 450C	..C.....
C	859	87-010-197-080	CAP, CHIP 0.01 DM	....E...
C	865	87-010-196-080	CHIP CAPACITOR,0.1-25	....E...
C	867	87-010-197-080	CAP, CHIP 0.01 DM	....E...
C	869	87-010-314-080	C-CAP,S 22P-50V	....E...
C	868	87-010-316-080	C-CAP,S 33P-50 CH	....E...
C	866	87-010-405-080	CAP, ELECT 10-50V	....E...
C	864	87-010-405-080	CAP, ELECT 10-50V	....E...
C	863	87-012-140-080	CAP 470P	....E...
C	862	87-012-156-080	C-CAP,S 220P-50 CH	....E...
C	861	87-012-156-080	C-CAP,S 220P-50 CH	....E...
IC	851	87-A20-440-040	C-IC,BU1920FS	....E...
Q	852	87-A30-073-080	C-TR,RT1N 141C	....E...
Q	853	87-A30-076-080	C-TR,2SC3052F	....E...
Q	851	87-A30-076-080	C-TR,2SC3052F	....E...
X	851	87-A70-091-010	VIB,XTAL 4.332MHZ CSA-309	....E...
C	829	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDE...
C	828	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDE...
C	820	87-010-408-080	CAP, ELECT 47-50V	ABCDE...
C	942	87-010-151-080	C-CAP,S 7P-50 CH	...DE...
C	940	87-010-197-080	CAP, CHIP 0.01 DM	ABCDE...
C	947	87-010-197-080	CAP, CHIP 0.01 DM	ABCDE...
C	941	87-010-314-080	C-CAP,S 22P-50V	..C.....
C	949	87-014-049-080	CAP,PP 470P-100 J	...DE...
C	944	87-014-051-080	CAPACITOR (PP), 560P	..C.....
C	959	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDE...
C	952	87-010-197-080	CAP, CHIP 0.01 DM	ABCDE...
C	956	87-010-263-080	CAP, ELECT 100-10V	..C.....
C	957	87-010-311-080	CAP 12P	...DE...
C	954	87-010-400-080	CAP, ELECT 0.47-50V	..C.....
C	950	87-014-073-080	CAP,PP 4700P-100 J	..C.....
C	961	87-010-152-080	C-CAP,S 8P-50 CH	AB.....
C	960	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDE...
C	962	87-010-401-080	CAP, ELECT 1-50V	..CDE...
CF	802	82-785-747-010	CF MS2 GHY R	...DE...
CF	802	87-008-261-010	FILTER, SFE10.7MA5-A	ABC.....
CF	801	87-008-261-010	FILTER, SFE10.7MA5-A	ABC.....
CF	801	87-008-423-010	CERAMIC FILTER, SFE10.7	...DE...
D	942	87-A40-270-080	C-DIODE,MC2838	...DE...
D	944	87-A40-470-080	DIODE,1SS254	..CDE...
FFE	801	A8-6ZA-19C-170	6ZA-1 YFEENC	...DE...
FFE	801	A8-8ZA-190-030	8ZA-1 FEUNM	ABC.....
FFE	801	A8-8ZA-193-070	8ZA-1 YFEUNC	.....
J	801	87-033-239-010	TERMINAL,HSP-154V-2	ABC.....
J	802	87-A60-403-010	TERMINAL,ANT PAL 2P HSP-312V05	.....
J	802	87-A60-427-010	TERMINAL,ANT PAL 2P YKD31-0429	...DE...
J	940	81-754-629-010	CONNECTOR, 2P	..C.....
L	832	86-NFZ-694-080	COIL,2.2UH K CECS	AB.....
L	832	87-005-847-080	COIL,2.2UH(CECS)	..CDE...
L	943	87-005-372-080	COIL S 1MHM	..C.....
L	942	87-A50-019-010	COIL,OSC LW(COI)	...DE...
L	941	87-A50-020-010	COIL,ANT LW(COI)	...DE...
L	941	87-A50-022-010	COIL,ANT SW(COI)	..C.....
L	944	87-A50-159-010	COIL,10MH K C2B	..C.....
L	942	87-A50-173-010	COIL,OSC SW-N(COI)	..C.....
L	981	87-NF4-650-010	COIL,AM PACK 4N(TOK)	AB.....
L	981	87-NF4-651-010	COIL,AM PACK2N(TOM)	...DE...
L	981	88-NF8-625-010	COIL,AM PACK3N(TOK)	..C.....
Q	807	87-A30-072-080	C-TR,RT1P 144C	ABCDE...
Q	805	89-327-143-080	TR,2SC2714 (0.1W)	ABCDE...
Q	943	87-A30-075-080	C-TR,2SA1235F	..C.....
Q	942	87-A30-075-080	C-TR,2SA1235F	..C.....
Q	945	87-A30-076-080	C-TR,2SC3052F	..C.....
Q	949	87-A30-076-080	C-TR,2SC3052F	..C.....
Q	944	87-A30-076-080	C-TR,2SC3052F	..C.....
Q	948	87-A30-086-070	C-TR,CSD1306E	..CDE...
Q	947	89-505-434-540	C-FET,2SK543(4/5)	..CDE...
Q	951	87-A30-074-080	C-TR,RT1P 141C	..CDE...
TC	941	87-011-220-080	TRIMMER CAP 20P VTC	..C.....
TC	942	87-011-221-080	CAP, TRIMMER 30P	..CDE...
		87-NF4-625-010	PWB,PT NF4 (85-60)	A.C.....
FC	101	87-033-147-010	FUSE CLAMP	A.C.....
FC	102	87-033-147-010	FUSE CLAMP	A.C.....
FC	104	87-033-147-010	FUSE CLAMP	A.C.....
FC	103	87-033-147-010	FUSE CLAMP	A.C.....
S	101	87-A90-165-010	SW,SL 1-2-3 SWS2301	A.C.....
T	102	87-A60-317-010	TERMINAL, 1P MSC	A.C.....
T	101	87-A60-317-010	TERMINAL, 1P MSC	A.C.....
C	601	87-010-180-080	C-CER 1500P	ABCDE...
C	602	87-010-180-080	C-CER 1500P	ABCDE...
C	619	87-010-185-080	C-CAP,S 3900P-50 B	ABCDE...
C	613	87-016-081-080	C-CAP,S 0.1-16 RK	ABCDE...
C	614	87-016-081-080	C-CAP,S 0.1-16 RK	ABCDE...
C	617	88-710-989-810	CAP,M 0.056-50 J TFL	ABCDE...

ELECTRICAL MAIN PARTS LIST - 8

C	618	88-710-989-810	CAP,M 0.056-50 J TFL	ABCDE.....
C	620	87-010-185-080	C-CAP,S 3900P-50 B	ABCDE.....
C	622	87-010-401-080	CAP, ELECT 1-50V	ABCDE.....
C	621	87-010-401-080	CAP, ELECT 1-50V	ABCDE.....
C	629	87-010-405-080	CAP, ELECT 10-50V	ABCDE.....
C	625	87-010-405-080	CAP, ELECT 10-50V	ABCDE.....
C	626	87-010-405-080	CAP, ELECT 10-50V	ABCDE.....
C	637	87-010-183-080	C-CAP,S 2700P-50 B	ABCDE.....
C	636	87-010-194-080	CAP, CHIP 0.047	ABCDE.....
C	630	87-010-213-080	C-CAP,S 0.015-50 B	ABCDE.....
C	633	87-010-263-080	CAP, ELECT 100-10V	ABCDE.....
C	632	87-010-263-080	CAP, ELECT 100-10V	ABCDE.....
C	631	87-010-992-080	C-CAP,S 0.047-25 B	ABCDE.....
C	653	87-010-318-080	C-CAP,S 47P-50 CH	...DE.....
C	654	87-010-318-080	C-CAP,S 47P-50 CH	...DE.....
C	667	87-010-196-080	CHIP CAPACITOR,0.1-25	ABCDE.....
C	669	87-010-322-080	C-CAP,S 100P-50 CH	...DE.....
C	671	87-010-322-080	C-CAP,S 100P-50 CH	...DE.....
C	670	87-010-322-080	C-CAP,S 100P-50 CH	...DE.....
C	672	87-010-322-080	C-CAP,S 100P-50 CH	...DE.....
CN	601	87-099-719-010	CONN,30P TYK-B(X)	ABCDE.....
CN	602	87-A60-131-010	CONN,6P V FE	ABCDE.....
D	601	87-A40-002-080	ZENER,MTZJ5.1C	ABCDE.....
D	602	87-A40-438-080	ZENER,MTZJ4.7A	ABCDE.....
IC	601	87-A20-954-040	C-IC,M62445FP-601	ABCDE.....
J	601	87-A60-402-010	JACK,PIN 6P R/W HSP-246V30	AB.....
J	601	87-A60-426-010	JACK,PIN 6P YKC21-3835	..CDE.....
Q	601	87-026-609-080	TR,KTA1266GR	ABCDE.....

ELECTRICAL MAIN PARTS LIST - 1 (FRONT ASSY <8ZZ-6>)

NOTE: The characters in the suffix column indicate the part usage.

EZTS .....XX.....A.....
KTST .....XX.....B.....

REF.NO		PARTS NO.	KANRI NO.	DESCRIPTION	SUFFIX
		87-NF5-210-010		GUIDE,LED	AB
		88-NF6-203-010		GUIDE,LED JOG	AB
		88-NF6-204-010		GUIDE,LED OPE	AB
		88-NF6-205-010		GUIDE,FL 40-150- 9	AB
C	101	87-010-075-040		CAP,E 10-16 5L	AB
C	105	87-010-178-080		CHIP CAP 1000P	AB
C	109	87-010-194-080		CAP, CHIP 0.047	AB
C	108	87-010-196-080		CHIP CAPACITOR,0.1-25	AB
C	102	87-010-196-080		CHIP CAPACITOR,0.1-25	AB
C	103	87-010-196-080		CHIP CAPACITOR,0.1-25	AB
C	107	87-010-197-080		CAP, CHIP 0.01 DM	AB
C	104	87-010-494-040		CAP,E 1-50 GAS	AB
C	106	87-A10-189-040		CAP,E 220-10	AB
C	114	87-010-182-080		C-CAP,S 2200P-50 B	AB
C	115	87-010-182-080		C-CAP,S 2200P-50 B	AB
C	118	87-010-196-080		CHIP CAPACITOR,0.1-25	AB
C	119	87-010-196-080		CHIP CAPACITOR,0.1-25	AB
C	112	87-010-312-080		C-CAP,S 15P-50 CH	AB
C	113	87-010-316-080		C-CAP,S 33P-50 CH	AB
C	111	87-010-320-080		CHIP CAP 68P	AB
C	116	87-010-405-040		CAP,E 10-50	AB
C	117	87-012-157-080		C-CAP,S 330P-50 CH	AB
C	110	87-012-157-080		C-CAP,S 330P-50 CH	AB
C	122	87-010-194-080		CAP, CHIP 0.047	AB
C	121	87-010-194-080		CAP, CHIP 0.047	AB
C	120	87-010-196-080		CHIP CAPACITOR,0.1-25	AB
C	125	87-010-196-080		CHIP CAPACITOR,0.1-25	AB
C	124	87-010-555-040		CAP,E 100-10 GAS	AB
C	151	87-010-197-080		CAP, CHIP 0.01 DM	AB
C	201	87-010-178-080		CHIP CAP 1000P	AB
C	202	87-010-194-080		CAP, CHIP 0.047	AB
C	205	87-010-404-040		CAP,E 4.7-50 SME	AB
C	204	87-010-404-040		CAP,E 4.7-50 SME	AB
C	203	87-010-408-040		CAP,E 47-50 SME	AB
C	211	87-012-145-080		CAP, CHIP S 270P CH	AB
C	219	87-012-145-080		CAP, CHIP S 270P CH	AB
C	221	87-012-145-080		CAP, CHIP S 270P CH	AB
C	220	87-012-145-080		CAP, CHIP S 270P CH	AB
C	222	87-012-145-080		CAP, CHIP S 270P CH	AB
C	225	87-012-145-080		CAP, CHIP S 270P CH	AB
C	373	87-010-196-080		CHIP CAPACITOR,0.1-25	AB
C	377	87-010-196-080		CHIP CAPACITOR,0.1-25	AB
C	375	87-010-196-080		CHIP CAPACITOR,0.1-25	AB
C	378	87-010-196-080		CHIP CAPACITOR,0.1-25	AB
C	372	87-010-196-080		CHIP CAPACITOR,0.1-25	AB
C	371	87-010-196-080		CHIP CAPACITOR,0.1-25	AB
C	376	87-012-158-080		C-CAP,S 390P-50 CH	AB
C	408	87-010-196-080		CHIP CAPACITOR,0.1-25	AB
C	404	87-010-196-080		CHIP CAPACITOR,0.1-25	AB
C	406	87-010-196-080		CHIP CAPACITOR,0.1-25	AB
C	402	87-010-196-080		CHIP CAPACITOR,0.1-25	AB
D	102	87-A40-269-080		C-DIODE,MC2836	AB
D	104	87-A40-270-080		C-DIODE,MC2838	AB
D	105	87-A40-270-080		C-DIODE,MC2838	AB
D	106	87-A40-470-080		DIODE,1SS254	AB
D	108	87-A40-470-080		DIODE,1SS254	A
D	101	87-A40-470-080		DIODE,1SS254	A
D	107	87-A40-470-080		DIODE,1SS254	AB
D	103	87-A40-509-080		ZENER,MTZJ6.8C	AB
D	313	87-A40-269-080		C-DIODE,MC2836	AB
D	315	87-A40-269-080		C-DIODE,MC2836	AB
D	314	87-A40-269-080		C-DIODE,MC2836	AB
D	317	87-A40-269-080		C-DIODE,MC2836	AB
D	311	87-A40-269-080		C-DIODE,MC2836	AB
D	310	87-A40-269-080		C-DIODE,MC2836	AB
D	316	87-A40-269-080		C-DIODE,MC2836	AB
D	312	87-A40-269-080		C-DIODE,MC2836	AB
D	319	87-A40-470-080		DIODE,1SS254	AB
D	328	87-A40-470-080		DIODE,1SS254	AB
D	325	87-A40-470-080		DIODE,1SS254	A
D	322	87-A40-470-080		DIODE,1SS254	AB
D	372	87-A40-470-080		DIODE,1SS254	AB
D	374	87-A40-470-080		DIODE,1SS254	AB
D	371	87-A40-470-080		DIODE,1SS254	AB
D	373	87-A40-470-080		DIODE,1SS254	AB
D	402	87-A40-470-080		DIODE,1SS254	AB
D	405	87-A40-470-080		DIODE,1SS254	AB
D	404	87-A40-470-080		DIODE,1SS254	AB
D	401	87-A40-470-080		DIODE,1SS254	AB
D	403	87-A40-470-080		DIODE,1SS254	AB
D	701	87-A40-269-080		C-DIODE,MC2836	AB
D	801	87-A40-470-080		DIODE,1SS254	A
FL	201	88-NF6-611-010		FL,BJ610GK	AB
IC	102	87-070-083-010		IC,GP1U281X	AB
IC	101	88-NF7-690-010		C-IC,LC866560W-5G73	AB

ELECTRICAL MAIN PARTS LIST - 2 (FRONT ASSY <8ZZ-6>)

IC	371	87-A20-083-010	IC,BA3835S	AB
IC	403	87-017-915-080	IC,BU4094BCF	AB
IC	402	87-017-915-080	IC,BU4094BCF	AB
IC	401	87-017-915-080	IC,BU4094BCF	AB
IC	404	87-070-289-040	IC,BU 2092F	AB
LED	406	87-070-197-080	LED,SLP7118C-51-S-T1	AB
LED	409	87-070-197-080	LED,SLP7118C-51-S-T1	AB
LED	405	87-070-197-080	LED,SLP7118C-51-S-T1	AB
LED	404	87-070-197-080	LED,SLP7118C-51-S-T1	AB
LED	408	87-070-197-080	LED,SLP7118C-51-S-T1	AB
LED	403	87-070-197-080	LED,SLP7118C-51-S-T1	AB
LED	401	87-070-197-080	LED,SLP7118C-51-S-T1	AB
LED	402	87-070-197-080	LED,SLP7118C-51-S-T1	AB
LED	407	87-070-197-080	LED,SLP7118C-51-S-T1	AB
LED	410	87-070-197-080	LED,SLP7118C-51-S-T1	AB
LED	414	87-070-201-080	LED,SLP9118C-51-S-T1	AB
LED	413	87-070-201-080	LED,SLP9118C-51-S-T1	AB
LED	412	87-070-201-080	LED,SLP9118C-51-S-T1	AB
LED	411	87-070-201-080	LED,SLP9118C-51-S-T1	AB
LED	415	87-070-201-080	LED,SLP9118C-51-S-T1	AB
LED	419	87-070-281-080	LED,SLZ736A-25-S-T1	AB
LED	417	87-070-281-080	LED,SLZ736A-25-S-T1	AB
LED	423	87-070-281-080	LED,SLZ736A-25-S-T1	AB
LED	425	87-070-281-080	LED,SLZ736A-25-S-T1	AB
LED	421	87-070-281-080	LED,SLZ736A-25-S-T1	AB
LED	427	87-070-281-080	LED,SLZ736A-25-S-T1	AB
LED	429	87-A40-446-040	LED,SLP-7131F-81H-S-T1 P-GRN	AB
LED	428	87-A40-446-040	LED,SLP-7131F-81H-S-T1 P-GRN	AB
LED	439	87-070-197-080	LED,SLP7118C-51-S-T1	AB
LED	438	87-070-197-080	LED,SLP7118C-51-S-T1	AB
LED	435	87-A40-446-040	LED,SLP-7131F-81H-S-T1 P-GRN	AB
LED	430	87-A40-446-040	LED,SLP-7131F-81H-S-T1 P-GRN	AB
LED	434	87-A40-446-040	LED,SLP-7131F-81H-S-T1 P-GRN	AB
LED	431	87-A40-446-040	LED,SLP-7131F-81H-S-T1 P-GRN	AB
LED	437	87-A40-446-040	LED,SLP-7131F-81H-S-T1 P-GRN	AB
LED	436	87-A40-446-040	LED,SLP-7131F-81H-S-T1 P-GRN	AB
LED	433	87-A40-446-040	LED,SLP-7131F-81H-S-T1 P-GRN	AB
LED	432	87-A40-446-040	LED,SLP-7131F-81H-S-T1 P-GRN	AB
LED	441	87-070-197-080	LED,SLP7118C-51-S-T1	AB
LED	440	87-070-197-080	LED,SLP7118C-51-S-T1	AB
LED	443	87-070-197-080	LED,SLP7118C-51-S-T1	AB
LED	442	87-070-197-080	LED,SLP7118C-51-S-T1	AB
LED	446	87-070-278-010	LED,SLZ-738A-24-S	AB
LED	447	87-070-278-010	LED,SLZ-738A-24-S	AB
LED	449	87-070-278-010	LED,SLZ-738A-24-S	AB
LED	444	87-070-278-010	LED,SLZ-738A-24-S	AB
LED	445	87-070-290-010	LED,SLZ 936-30-S	AB
LED	448	87-070-290-010	LED,SLZ 936-30-S	AB
LED	452	87-A90-825-040	LED,SLP-9131C-81H-S-T1 RED	AB
LED	457	87-A90-825-040	LED,SLP-9131C-81H-S-T1 RED	AB
LED	450	87-A90-825-040	LED,SLP-9131C-81H-S-T1 RED	AB
LED	458	87-A90-825-040	LED,SLP-9131C-81H-S-T1 RED	AB
LED	456	87-A90-825-040	LED,SLP-9131C-81H-S-T1 RED	AB
LED	453	87-A90-825-040	LED,SLP-9131C-81H-S-T1 RED	AB
LED	455	87-A90-825-040	LED,SLP-9131C-81H-S-T1 RED	AB
LED	454	87-A90-825-040	LED,SLP-9131C-81H-S-T1 RED	AB
LED	451	87-A90-825-040	LED,SLP-9131C-81H-S-T1 RED	AB
Q	102	87-026-263-080	C-TR,RN1410	AB
Q	104	87-026-610-080	TR,KTC3198GR	AB
Q	103	87-A30-071-080	C-TR,RT1N 144C	AB
Q	101	87-A30-087-080	C-FET,2SK2158	AB
Q	301	87-A30-076-080	C-TR,2SC3052F	AB
Q	404	87-026-580-080	C-TR,DTA123JK	AB
Q	407	87-026-580-080	C-TR,DTA123JK	AB
Q	405	87-026-580-080	C-TR,DTA123JK	AB
Q	403	87-026-580-080	C-TR,DTA123JK	AB
Q	406	87-026-580-080	C-TR,DTA123JK	AB
Q	401	87-A30-073-080	C-TR,RT1N 141C	AB
Q	402	87-A30-073-080	C-TR,RT1N 141C	AB
Q	409	87-A30-074-080	C-TR,RT1P 141C	AB
Q	408	87-A30-075-080	C-TR,2SA1235F	AB
Q	413	87-A30-074-080	C-TR,RT1P 141C	AB
Q	419	87-A30-074-080	C-TR,RT1P 141C	AB
Q	418	87-A30-074-080	C-TR,RT1P 141C	AB
Q	414	87-A30-074-080	C-TR,RT1P 141C	AB
Q	417	87-A30-074-080	C-TR,RT1P 141C	AB
Q	416	87-A30-074-080	C-TR,RT1P 141C	AB
Q	411	87-A30-074-080	C-TR,RT1P 141C	AB
Q	412	87-A30-074-080	C-TR,RT1P 141C	AB
Q	415	87-A30-074-080	C-TR,RT1P 141C	AB
Q	410	87-A30-074-080	C-TR,RT1P 141C	AB
Q	423	87-A30-074-080	C-TR,RT1P 141C	AB
Q	420	87-A30-074-080	C-TR,RT1P 141C	AB
Q	422	87-A30-074-080	C-TR,RT1P 141C	AB
Q	424	87-A30-074-080	C-TR,RT1P 141C	AB
Q	421	87-A30-074-080	C-TR,RT1P 141C	AB
Q	704	87-A30-073-080	C-TR,RT1N 141C	AB
Q	703	87-A30-085-070	C-TR,CSA1362GR	AB
Q	702	87-A30-085-070	C-TR,CSA1362GR	AB
Q	701	89-112-965-080	TR,2SA1296 (0.75W)	AB
S	102	87-A90-535-010	SW,RTRY EC16B24304	AB
S	101	87-A90-792-010	SW,RTRY EC12E12244 ENCORDER	AB

ELECTRICAL MAIN PARTS LIST - 3 (FRONT ASSY <8ZZ-6>)

S	304	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	301	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	307	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	302	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	306	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	308	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	303	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	309	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	305	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	313	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	312	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	310	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	314	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	311	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	321	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	322	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	323	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	329	87-A90-095-080	SW,TACT EVQ11G04M	A
S	324	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	327	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	326	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	328	87-A90-095-080	SW,TACT EVQ11G04M	A
S	325	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	333	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	334	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	330	87-A90-095-080	SW,TACT EVQ11G04M	A
S	345	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	346	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	344	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	341	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	343	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	349	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	342	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	347	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	348	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	351	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	354	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	350	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	355	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	353	87-A90-095-080	SW,TACT EVQ11G04M	AB
S	352	87-A90-095-080	SW,TACT EVQ11G04M	AB
X	101	87-A70-070-080	VIB,CER 5.76MHZ CRHF	AB
C	602	87-010-186-080	CAP,CHIP 4700P	AB
C	608	87-010-196-080	CHIP CAPACITOR,0.1-25	AB
C	605	87-010-196-080	CHIP CAPACITOR,0.1-25	AB
C	607	87-010-321-080	CHIP CAPACITOR,82P(J)	AB
C	606	87-010-322-080	C-CAP,S 100P-50 CH	AB
C	601	87-010-405-040	CAP,E 10-50	AB
C	603	87-010-405-040	CAP,E 10-50	AB
C	604	87-010-406-040	CAP,E 22-50 SME	AB
C	609	87-010-545-040	CAP,E 0.22-50 SME	AB
C	612	87-010-176-080	C-CAP,S 680P-50 SL	AB
C	611	87-010-177-080	C-CAP,S 820P-50 SL	AB
C	614	87-010-248-040	CAP,E 220-10 SME	AB
C	610	87-010-322-080	C-CAP,S 100P-50 CH	AB
C	652	87-010-196-080	CHIP CAPACITOR,0.1-25	AB
C	653	87-010-196-080	CHIP CAPACITOR,0.1-25	AB
C	651	87-010-401-040	CAP,E 1-50 SME	AB
D	601	87-A40-470-080	DIODE,1SS254	AB
D	651	87-A40-470-080	DIODE,1SS254	AB
FB	601	87-008-372-080	FILTER, EMI BL OIRNI	AB
IC	601	87-017-888-080	IC,NJM4558MD	AB
J	602	87-A60-284-010	JACK,3.5MO (MSC)	AB
J	601	87-A60-284-010	JACK,3.5MO (MSC)	AB
Q	602	87-A30-075-080	C-TR,2SA1235F	AB
Q	603	87-A30-087-080	C-FET,2SK2158	AB
Q	601	87-A30-087-080	C-FET,2SK2158	AB
Q	651	87-A30-076-080	C-TR,2SC3052F	AB
C	902	87-010-196-080	CHIP CAPACITOR,0.1-25	AB
C	901	87-010-263-040	CAP,E 100-10	AB
C	903	87-010-313-080	CAP, CHIP 18P	AB
C	905	87-010-400-040	CAP,E 0.47-50	AB
C	904	87-012-155-080	C-CAP 180P-50CH	AB
D	901	87-070-136-080	ZENER,MTZJ5.1B	AB
D	902	87-A40-470-080	DIODE,1SS254	AB
IC	901	88-NF5-615-040	C-IC,MSM6654A-521GS-KR1	AB
L	901	87-007-340-010	COIL,CLOCK 4.19MHZ	AB

ELECTRICAL MAIN PARTS LIST - 1 (PRO : 8ZA-4)

REF.NO.	PARTNO.	KANRI NO.	DESCRIPTION
IC			
	87-A20-715-010		IC,M62439SP
	87-A20-853-010		C-IC,M62463FP
	87-017-726-080		C-IC,BU4052BCF
	87-017-917-080		C-IC,BU4066BCF
TRANSISTOR			
	87-A30-190-080		TR,CC5551
	87-026-609-080		TR,KTA1266GR
	87-026-610-080		TR,KTC3198GR
	87-A30-108-010		TR,2SB1626
	87-A30-109-010		TR,2SD2495
	87-A30-214-010		TR,2SB1344
	87-A30-215-010		TR,2SD2025
	87-A30-075-080		C-TR,2SA1235F
	87-A30-076-080		C-TR,2SC3052F
	87-A30-107-070		C-TR,CMBT5401
	87-A30-106-070		C-TR,CMBT5551
	87-A30-086-070		C-TR,CSD1306E
	87-A30-087-080		C-FET,2SK2158
	87-A30-074-080		C-TR,RT1P 141C
	87-A30-104-080		C-TR,RT1N441C
	87-026-223-080		C-TR,DTC143TK
DIODE			
	87-A40-470-080		DIODE,1SS254
	87-A40-488-080		DIODE,1SS244
	87-070-136-080		ZENER,MTZJ5.1B
	87-A40-348-080		ZENER,MTZJ3.3A
	87-A40-442-080		ZENER,MTZJ9.1A
	87-A40-116-060		DIODE,RS403L-B-D-51
PRO C.B			
C101	87-012-368-080		C-CAP,S 0.1-50 Z F
C102	87-012-368-080		C-CAP,S 0.1-50 Z F
C103	87-010-917-090		CAP,E 3300-50 M SMG
C104	87-010-917-090		CAP,E 3300-50 M SMG
C105	87-010-196-080		C-CAP,S 0.1-25 Z F
C106	87-010-196-080		C-CAP,S 0.1-25 Z F
C111	87-010-178-080		C-CAP,S 1000P-50 K B
C207	87-010-402-080		CAP,E 2.2-50 M SME
C208	87-010-402-080		CAP,E 2.2-50 M SME
C209	87-010-183-080		C-CAP,S 2700P-50 K B
C210	87-010-183-080		C-CAP,S 2700P-50 K B
C211	87-010-404-080		CAP,E 4.7-50 M SME
C212	87-010-404-080		CAP,E 4.7-50 M SME
C217	87-010-408-080		CAP,E 47-50 M SME
C218	87-010-408-080		CAP,E 47-50 M SME
C219	87-A10-596-080		C-CAP,S 100P-100 J CH
C220	87-A10-596-080		C-CAP,S 100P-100 J CH
C221	87-A10-899-080		CAP,E 47-25 M BP
C222	87-A10-899-080		CAP,E 47-25 M BP
C223	87-010-544-080		CAP,E 0.1-50 M SME
C224	87-010-544-080		CAP,E 0.1-50 M SME
C225	87-010-993-080		C-CAP,S 0.056-25 K B
C226	87-010-993-080		C-CAP,S 0.056-25 K B
C227	87-010-196-080		C-CAP,S 0.1-25 Z F
C228	87-010-196-080		C-CAP,S 0.1-25 Z F
C233	87-010-263-080		CAP,E 100-10 SME
C234	87-010-263-080		CAP,E 100-10 SME
C307	87-010-402-080		CAP,E 2.2-50 M SME
C309	87-010-183-080		C-CAP, 2700P-50 K B
C311	87-010-404-080		CAP,E 4.7-50 M SME
C317	87-010-406-080		CAP,E 22-50 M SME
C319	87-A10-596-080		C-CAP,S 100P-100 J CH
C321	87-A10-899-080		CAP,E 47-25 M BP
C323	87-010-544-080		CAP,E 0.1-50 M SME
C325	87-010-993-080		C-CAP,S 0.056-25 K B
C327	87-010-196-080		C-CAP,S 0.1-25 Z F
C333	87-010-263-080		CAP,E 100-10 SME
C400	87-010-378-080		CAP,E 10-16 M SME
C401	87-010-374-080		CAP,E 47-10 M SME
C402	87-010-196-080		C-CAP,S 0.1-25 Z F
C403	87-010-154-080		C-CAP,S 10P-50 D CH
C404	87-010-374-080		CAP,E 47-10 M SME
C405	87-010-196-080		C-CAP,S 0.1-25 Z F
C407	87-010-154-080		C-CAP,S 10P-50 D CH
C408	87-010-545-080		CAP,E 0.22-50 M SME
C410	87-010-546-080		CAP,E 0.33-50 SME
C413	87-010-196-080		C-CAP,S 0.1-25 Z F
C415	87-010-400-080		CAP,E 0.47-50 M SME
C416	87-010-400-080		CAP,E 0.47-50 M SME
C418	87-010-401-080		CAP,E 1-50 M SME
C419	87-010-260-080		CAP,E 47-25 SME
C421	87-010-378-080		CAP,E 10-16 M SME
C422	87-010-378-080		CAP,E 10-16 M SME
C501	87-010-176-080		C-CAP,S 680P-50 J SL
C502	87-010-176-080		C-CAP,S 680P-50 J SL
C503	87-A10-804-080		C-CAP,S 0.1-25 J B
C504	87-A10-804-080		C-CAP,S 0.1-25 J B
C505	87-A10-804-080		C-CAP,S 0.1-25 J B
C506	87-A10-804-080		C-CAP,S 0.1-25 J B
C509	87-010-112-080		CAP,E 100-16 M SME
C510	87-010-221-080		CAP,E 470-10 M SME
C511	87-A10-891-080		CAP,E 4.7-25 SME(K)
C512	87-A10-800-080		C-CAP,S 6800P-16 J B
C513	87-010-374-080		CAP,E 47-10 M SME
C514	87-010-196-080		C-CAP,S 0.1-25 Z F
C515	87-010-401-080		CAP,E 1-50 M SME
C516	87-010-401-080		CAP,E 1-50 M SME
C518	87-010-546-080		CAP,E 0.33-50 SME
C519	87-010-400-080		CAP,E 0.47-50 M SME
C520	87-010-546-080		CAP,E 0.33-50 SME
C521	87-010-546-080		CAP,E 0.33-50 SME
C522	87-018-209-080		CAP,TC U 0.1-50 Z F
C524	87-010-374-080		CAP,E 47-10 M SME
C526	87-010-196-080		C-CAP,S 0.1-25 Z F
C530	87-010-544-080		CAP,E 0.1-50 M SME
C531	87-010-546-080		CAP,E 0.33-50 SME
C532	87-010-971-080		C-CAP,S 4700P-50 J B
C533	87-012-349-080		C-CAP,S 1000P-50 J CH
C538	87-010-971-080		C-CAP,S 4700P-50 J B
C539	87-012-349-080		C-CAP,S 1000P-50 J CH
C540	87-010-401-080		CAP,E 1-50 M SME
C541	87-010-401-080		CAP,E 1-50 M SME
C542	87-A10-799-080		C-CAP,S 5600P-16 J B
C543	87-A10-802-080		C-CAP,S 0.047-16 J B
C544	87-A10-229-080		C-CAP,S 0.68-10 K
C545	87-012-393-080		C-CAP,S 0.22-16 K
C546	87-012-393-080		C-CAP,S 0.22-16 K
C547	87-010-404-080		CAP,E 4.7-50 M SME
C548	87-010-404-080		CAP,E 4.7-50 M SME
C549	87-012-393-080		C-CAP,S 0.22-16 K
C550	87-012-393-080		C-CAP,S 0.22-16 K
C551	87-016-081-080		C-CAP,S 0.1-16 K R
C552	87-A10-802-080		C-CAP,S 0.047-16 J B
C553	87-A10-802-080		C-CAP,S 0.047-16 J B
C554	87-016-081-080		C-CAP,S 0.1-16 K R
C555	87-016-081-080		C-CAP,S 0.1-16 K R
C556	87-A10-801-080		C-CAP,S 0.022-16 J B
C557	87-A10-801-080		C-CAP,S 0.022-16 J B
C558	87-016-081-080		C-CAP,S 0.1-16 K R
C579	87-010-402-080		CAP,E 2.2-50 M SME
C580	87-010-402-080		CAP,E 2.2-50 M SME
C601	87-010-196-080		C-CAP,S 0.1-25 Z F
C602	87-010-196-080		C-CAP,S 0.1-25 Z F
C603	87-010-196-080		C-CAP,S 0.1-25 Z F
C604	87-010-196-080		C-CAP,S 0.1-25 Z F
J201	87-A60-561-010		JACK,PIN 4P W/R,B/O
J601	87-A60-562-010		JACK,PIN 6P W/R

ELECTRICAL MAIN PARTS LIST - 2 (PRO : 8ZA-4)

REF.NO.	PARTNO.	KANRI NO.	DESCRIPTION
L201	87-003-383-010		COIL,1UH K
L202	87-003-383-010		COIL,1UH K
L301	87-003-383-010		COIL,1UH K
R243	87-A00-258-080		RES,M/F 0.22-1W J
R244	87-A00-258-080		RES,M/F 0.22-1W J
R245	87-A00-258-080		RES,M/F 0.22-1W J
R246	87-A00-258-080		RES,M/F 0.22-1W J
R343	87-A00-258-080		RES,M/F 0.22-1W J
R345	87-A00-258-080		RES,M/F 0.22-1W J
R509	87-022-214-080		C-RES,S 100K-1/10W F

MECHANICAL PARTS LIST - 1

NOTE: The characters in the suffix column indicate the part usage.

AHEM		XX		C
AKSE		XX		D
AEZE		XX		E

REF.NO		PARTS NO.	KANRI NO.	DESCRIPTION	SUFFIX
		86-NF6-007-010		WINDOW,TOP	A.CDE
		86-NF6-101-010		WINDOW TOP UL	.B
		87-NB8-005-010		PANEL,LEFT	A.CDE
		87-NB8-051-010		PANEL,LEFT U	.B
		87-NF6-021-010		PANEL,TOP	ABCDE
		88-NF6-003-010		BOX,CASS 1	ABC
		88-NF6-004-010		BOX,CASS 2	ABC
		88-NF6-006-010		PANEL,TRAY	ABCDE
		88-NF6-007-010		PANEL,CD	ABC
		88-NF6-013-010		WINDOW,CASS 1	ABC
		88-NF6-014-010		WINDOW,CASS 2	ABC
		88-NF8-047-010		PANEL,RIGHT 2	A.CDE
		88-NF8-048-010		PANEL,RIGHT 2 U	.B
		88-NFT-001-010		CABI,FR U	.B
		88-NFT-001-210		CABI,FR U	
		88-NFT-002-010		CABI,FR H	A
		88-NFT-002-210		CABI,FR H	..C
		88-NFT-004-010		WINDOW,DISPLAY F26	.B
		88-NFT-005-010		CABI,REAR USTNM	.B
		88-NFT-006-010		CABI,REAR LHSTNM	A
		88-NFT-008-010		CABI,REAR KSTNE	...D
		88-NFT-009-010		CABI,REAR EZSTNE	....E
		88-NFT-014-010		PANEL,FR H F26	ABC
		88-NFT-019-010		WINDOW,DSPLY H 720	A.C
		88-NFT-020-010		CABI,REAR HEJSTM	..C
		88-NFT-021-010		CABI,REAR HRSTNM 720	
		88-NFT-022-010		CABI,REAR UST 720	
		88-NF6-015-010		KNOB,RTRY VOL	AB
		88-NF6-015-110		KNOB,RTRY VOL	..C
		88-NF6-016-010		KNOB,RTRY JOG	AB
		88-NF6-016-110		KNOB,RTRY JOG	..C
		88-NF6-017-010		RING,VOL	ABC
		88-NF6-021-010		KEY,ASSY DISC	ABC
		88-NF6-025-010		KEY,OPEN	ABC
		88-NF6-026-010		KEY,POWER	ABC
		88-NF6-027-010		KEY,BBE	ABC
		88-NF6-029-010		KEY,JOG	AB
		88-NF6-029-110		KEY,JOG	..C
		88-NF6-030-010		KEY,ASSY FUN	ABC
		88-NF6-036-010		KEY,MIC	ABC
		88-NF6-037-010		KEY,REC	ABC
		88-NF6-041-010		KEY,ASSY OPE	ABC
		88-NFT-012-010		KEY,KARAOKE F26	ABC
		81-532-080-010		LABEL, CASS. COMPT	ABC
		86-NF6-061-010		REFLECTOR,CASS	ABC
		88-NF6-008-010		PLATE,CASS 1	ABC
		88-NF6-009-010		PLATE,CASS 2	ABC
		88-NF6-050-010		REFLECTOR,JOG	ABC
CN	0	87-NF6-616-010		CONN ASSY,8P RPB	ABCDE
		84-ZG1-245-210		CAP,OPTICAL	ABCDE
		82-NF5-218-010		SPR-T,EJECT 1 (SIN)	ABCDE
		82-NF5-219-010		SPR-T,EJECT 2 (SIN)	ABCDE
		82-NF5-229-010		PLATE,LOCK	ABC
		86-NF9-224-010		SPR-C,LOCK	ABC
		87-064-185-010		HLDR,WIRE	...DE
		87-NF4-216-010		HLDR,LOCK 1	ABC
		87-NF4-217-010		HLDR,LOCK 2	ABC
		87-NF4-221-010		HLDR,CABLE	ABCDE
		87-NF8-220-010		DMPR,150	ABC
		87-NFR-203-010		HT-SINK,PRO	ABCDE
		88-NF5-208-010		HLDR,PWB-M N	ABCDE
		88-NFT-201-010		GUIDE,LED PRLGC	ABC
		87-067-579-010		TAPPING SCREW, BVT2+3-8	ABCDE
		87-067-641-010		UTT2+3-8(W/O SLOT)BL	ABCDE
		87-067-688-010		BVTT+3-6	ABCDE
		87-067-703-010		TAPPING SCREW, BVT2+3-10	ABCDE
		87-067-822-010		BVT2+3-20 W/O SLOT	...DE
		87-078-019-010		S-SCREW,IT+4-6	ABCD
		87-078-191-010		S-SCREW,IT+4-10	....E
		87-591-094-410		TAPPING SCREW, QIT+3-6	..CDE
		87-721-096-410		QT2+3-10 GLD	ABCDE
		87-721-097-410		QT2+3-12 GLD	ABCDE
		87-B10-090-010		BVIT3B+3-12 GOLD	AB
		87-NF4-224-010		S-SCREW,IT3B+3-8 CU	ABCDE
		85-NF5-617-010		CABLE,FFC 6P-1.25	ABC
		85-NF5-618-010		CABLE,FFC 13P-1.25	ABC
		87-085-185-010		BUSHING, AC CORD (E)	A.CDE
		87-085-189-010		BUSHING, CORD (U)	.B
		87-098-274-010		LABEL FUSE 6A-125V	.B
		87-A90-796-010		FAN,F614R-12MC-15-300MM	..CDE
		88-906-241-110		FF-CABLE,6P 1.25	ABCDE
		88-915-221-110		FF-CABLE, 15P 1.25 220MM	ABC
		88-918-251-110		FF-CABLE, 18P 1.25 250MM	ABC
F	101	87-035-368-010		FUSE, 4A 250V	A.CDE
F	101	87-035-491-010		FUSE,6A 125V D UL	.B

MECHANICAL PARTS LIST - 2

PT	101	88-NFT-621-010	PT,8NF-26 U	.B.....
PT	101	88-NFT-622-010	PT,8NF-26 HR	..C.....
PT	101	88-NFT-623-010	PT,8NF-26 EZ	....E.....
PT	101	88-NFT-624-010	PT,8NF-26 LH	A.....
PT	101	88-NFT-626-010	PT,8NF-26 KGV	...D.....
W	101	87-050-034-010	AC CORD ASSY,E	....E.....
W	101	87-050-053-010	AC CORD ASSY,U-2	.B.....
W	101	87-050-079-010	AC-CORD ASSY,E	A.C.....
W	101	87-A80-023-010	AC CORD,ASSY K 3P W	.....
W	101	87-A80-103-010	AC CORD ASSY,K 3P (5A)	...D.....
		87-NF5-210-010	GUIDE,LED	ABC.....
		88-NF6-203-010	GUIDE,LED JOG	ABC.....
		88-NF6-204-010	GUIDE,LED OPE	AB.....
		88-NF6-204-110	GUIDE,LED OPE	..C.....
		88-NF6-205-010	GUIDE,FL 40-150- 9	ABC.....
W	104	85-NF5-628-010	F-CABLE 7P-2.5	ABCDE.....
WH	101	87-A90-460-010	HLDR,WIRE 2.5-7P	ABCDE.....
		87-067-579-010	TAPPING SCREW, BVT2+3-8	A.C.....
		87-067-703-010	TAPPING SCREW, BVT2+3-10	ABCDE.....
WH	102	87-A90-460-010	HLDR,WIRE 2.5-7P	ABCDE.....

MECHANICAL PARTS LIST - 1 (FRONT ASSY <8ZZ-6>)

NOTE: The characters in the suffix column indicate the part usage.

EZTS .....XX.....A.....
KTST .....XX.....B.....

REF.NO	PARTS NO.	KANRI NO.	DESCRIPTION	SUFFIX
	88-NF6-003-010		BOX,CASS 1	AB
	88-NF6-004-010		BOX,CASS 2	AB
	88-NF6-007-010		PANEL,CD	AB
	88-NF6-013-010		WINDOW,CASS 1	AB
	88-NF6-014-010		WINDOW,CASS 2	AB
	88-NFT-003-010		CABI,FR E	AB
	88-NFT-015-010		PANEL,FR E F26	A
	88-NFT-016-010		PANEL,FR K F26	.B
	88-NFT-018-010		WINDOW,DISPLAY E F26	A
	88-NFT-019-010		WINDOW,DSPLY H 720	.B
	88-NF6-015-010		KNOB,RTRY VOL	AB
	88-NF6-016-010		KNOB,RTRY JOG	AB
	88-NF6-017-010		RING,VOL	AB
	88-NF6-021-010		KEY,ASSY DISC	AB
	88-NF6-025-010		KEY,OPEN	AB
	88-NF6-026-010		KEY,POWER	AB
	88-NF6-027-010		KEY,BBE	AB
	88-NF6-029-010		KEY,JOG	AB
	88-NF6-030-010		KEY,ASSY FUN	AB
	88-NF6-036-010		KEY,MIC	AB
	88-NF6-040-010		KEY,REC E	AB
	88-NF6-041-010		KEY,ASSY OPE	AB
	88-NFT-012-010		KEY,KARAOKE F26	.B
	88-NFT-013-010		KEY,RDS F26	A
	81-532-080-010		LABEL, CASS. COMPT	AB
	86-NF6-061-010		REFLECTOR,CASS	AB
	88-NF6-008-010		PLATE,CASS 1	AB
	88-NF6-009-010		PLATE,CASS 2	AB
	88-NF6-050-010		REFLECTOR,JOG	AB
	82-NF5-229-010		PLATE,LOCK	AB
	86-NF9-224-010		SPR-C,LOCK	AB
	87-NF4-216-010		HLDR,LOCK 1	AB
	87-NF4-217-010		HLDR,LOCK 2	AB
	87-NF8-220-010		DMPR,150	AB
	88-NFT-201-010		GUIDE,LED PRLGC	AB
	87-067-703-010		TAPPING SCREW, BVT2+3-10	AB
	85-NF5-617-010		CABLE,FFC 6P-1.25	AB
	85-NF5-618-010		CABLE,FFC 13P-1.25	AB
	88-915-221-110		FF-CABLE, 15P 1.25 220MM	AB
	88-918-251-110		FF-CABLE, 18P 1.25 250MM	AB
	87-NF5-210-010		GUIDE,LED	AB
	88-NF6-203-010		GUIDE,LED JOG	AB
	88-NF6-204-010		GUIDE,LED OPE	AB
	88-NF6-205-010		GUIDE,FL 40-150- 9	AB

TAPE MECHANISM PART LIST - 1

REF.NO.	PARTNO.	KANRI NO.	DESCRIPTION
1	86-ZM3-215-010		CHAS ASSY,RS
2	86-ZM3-202-010		BASE,HEAD S
3	86-ZM3-205-010		SPR-C,RPH S
4	82-ZM1-333-210		PLATE,LINK 2
5	86-ZM3-206-010		SPR-C,EH S
6	87-A90-403-019		HEAD,RPH MS15R
7	86-ZM3-201-010		CHAS,HEAD S(DECK L)
7	82-ZM3-206-910		CHAS,HEAD(DECK R)
8	87-045-347-019		MOT,SHU2L 70(M1)
9	82-ZM1-269-219		SPR-T,BRG
10	82-ZM1-219-110		SPR-T,LINK
11	86-ZM3-209-010		S-SCREW,ASIMUTHS
12	86-ZM3-207-010		S-SCREW,RPH
13	87-A90-404-019		HEAD,EH LE15B
14	86-ZM3-208-010		S-SCREW,EH
15	86-ZM3-203-010		HLDR,MOTS
16	82-ZM1-245-210		HLDR,IC
17	82-ZM1-218-019		SPR-E,HB
18	86-ZM3-214-010		BELT,SUB RR
19	82-ZM1-222-219		LVR,PLAY
20	82-ZM1-217-419		REEL TABLE
21	82-ZM1-244-519		SPR-C,BT
22	82-ZM1-285-410		SPR-C,BT L
23	82-ZM1-257-019		SPR-T,CAS
24	82-ZM3-221-010		PULLEY,MOT 2M
25	82-ZM1-242-019		LVR,CAS
26	82-ZM1-243-019		LVR,STOP
27	82-ZM1-344-119		LVR ASSY,PINCH
28	86-ZM3-204-010		SPR-T,PINCHDS
29	82-ZM1-240-119		LVR,REC (DECK 2)
30	86-ZM3-210-010		BELT,RS
32	82-ZM3-305-119		GEAR,CAM M2
33	82-ZM1-227-319		LVR,TRIG
34	82-ZM3-306-110		LVR,FR M2
35	82-ZM1-265-119		SPR-E,TRIG
36	87-761-073-419		VFT2+2.6-6 W/O SLOT
37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
38	82-ZM1-322-019		SPR-T,FR60
39	82-ZM1-220-219		GEAR,IDLER
40	82-ZM3-616-019		RING MAGNET 4
41	82-ZM1-216-319		GEAR,REEL
42	86-ZM3-213-010		S-SCREW,HLDR,MOT 3
43	82-ZM1-225-219		GEAR,FR
44	82-ZM1-226-019		GEAR,REW
45	82-ZM3-333-310		SLIP DISK ASSY 2
46	82-ZM1-338-010		BELT FR4
47	82-ZM1-349-019		FLY-WHL RW (DECK L)
47	82-ZM3-338-010		FLY-WHL R3W (DECK R)
48	82-ZM1-259-210		SPR-T,PINCH R
49	82-ZM1-341-110		LVR ASSY,PINCH L2
50	82-ZM1-258-210		SPR-T,PINCH L
51	82-ZM1-314-110		PLATE,HEAD
52	82-ZM1-208-310		HLDR,HEAD
53	87-A90-366-010		HEAD,PH YK50P-BF414
54	82-ZM1-207-810		GUIDE TAPE
55	82-ZM1-213-010		SPR-T,HEAD
56	82-ZM1-210-110		GEAR,HT
57	86-ZM4-206-010		S-SCREW AZIMUTH L
58	82-ZM1-348-010		FLY-WHL,LW
59	82-ZM1-236-019		CAPSTAN N 2-41.5
60	82-ZM3-335-210		PULLEY,COUPLER M3
61	86-ZM1-206-010		BELT,MAIN L
62	82-ZM1-266-110		LVR,DIR
63	82-ZM1-214-010		SPR-T,DIR
64	82-ZM1-255-310		SPR-E,LVR DIR
65	82-ZM3-339-010		SHAFT,COUPLER N3
A	87-251-071-417		U+2.6-4
B	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
C	82-ZM3-334-010		PW,2.16-6-0.4
D	80-ZM6-207-010		V+1.6-7
E	85-ZM3-202-010		S-SCREW TG
F	82-ZM1-288-010		SH,1.63-3.2-0.5 SLT
G	87-B10-043-010		W-P,0.99-4-0.25 SLT
H	87-571-032-410		VIT+2-3

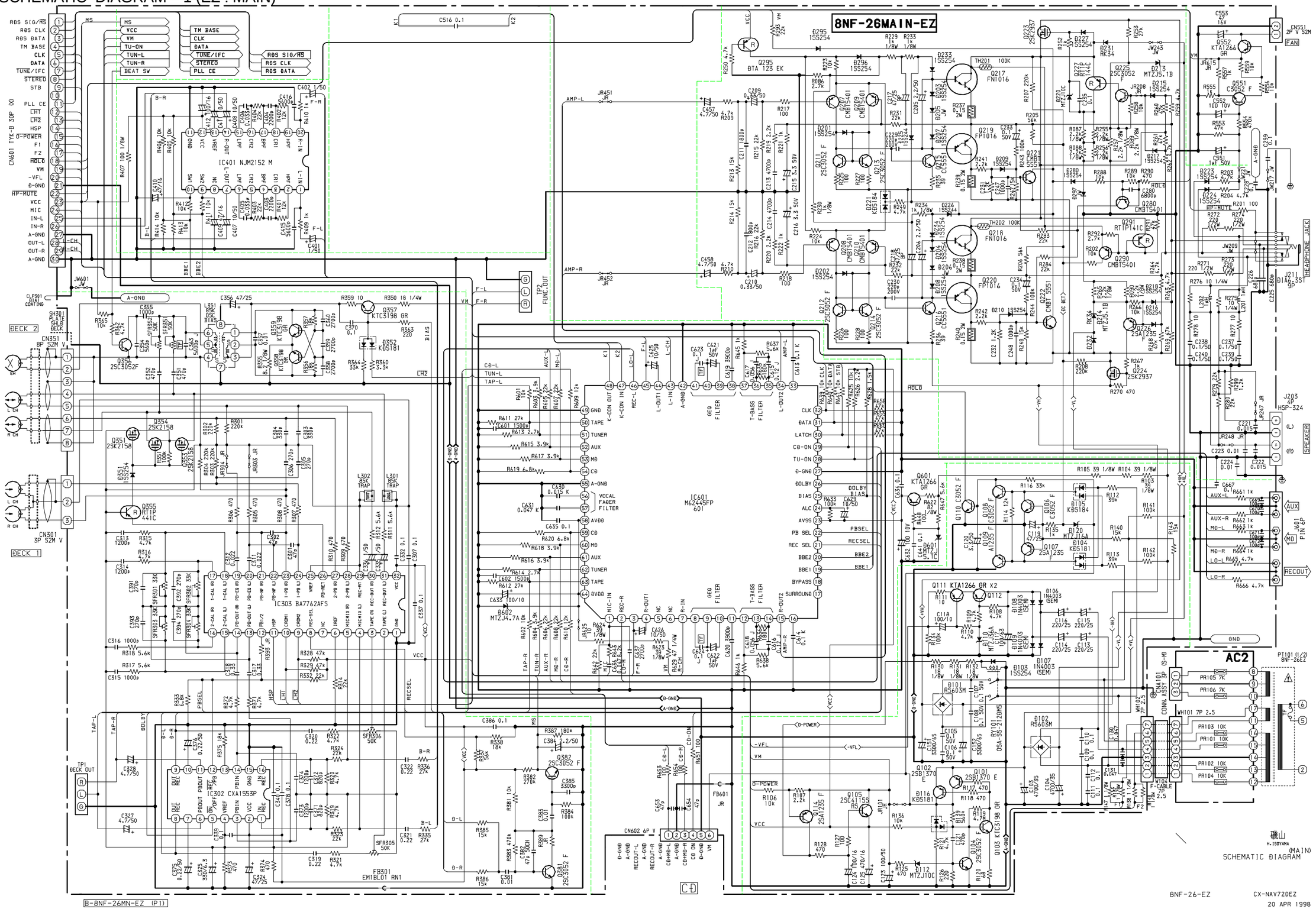
ACCESSORIES / PACKAGE LIST - 1

NOTE: The characters in the suffix column indicate the part usage.

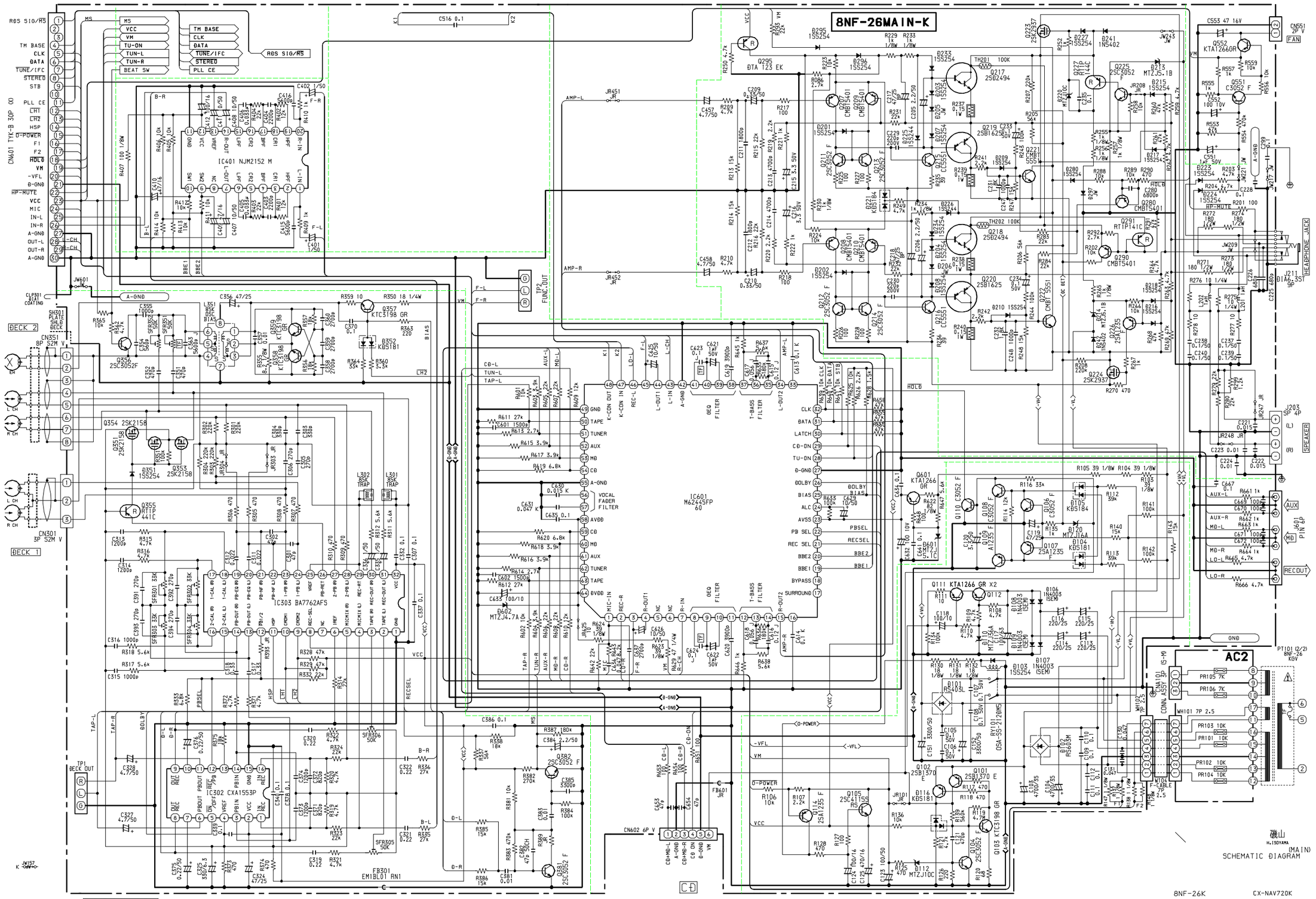
AHEM .....XX.....C.....
AKSE .....XX.....D.....
AEZE .....XX.....E.....

REF.NO		PARTS NO.	KANRI NO.	DESCRIPTION	SUFFIX
		87-B50-043-010		LIST,FACILITY-A5	..CDE.....
		88-NFT-901-010		IB,H(ECA)M	..C.....
		88-NFT-902-010		IB,LH(ESP)M	A.....
		88-NFT-903-010		IB,U(ESF)M	.B.....
		88-NFT-903-110		IB,U(ESF)M	.....
		88-NFT-905-010		IB,K(E)E	...D.....
		88-NFT-906-010		IB,E(9L)E	....E.....
		88-NFT-913-010		IB,U(ESF)I	.....
		87-006-269-010		AM LOOP ANT (UN)	..C.....
		87-043-095-010		WIRE ANTENNA	..C.....
		87-043-106-010		WIRE, FM ANT (Z)	...DE.....
		87-043-115-010		ANT,FEEDER FM	ABC.....
		87-099-789-010		PLUG,ADPTR IR44	..C.....
		87-A90-312-010		PLUG,CONVERSION WTN-1157R1	A.....
		87-NFR-610-010		RC UNIT,RC-7AS09	AB.....
		87-NFR-613-010		RC UNIT,RC-7AS09	..CDE.....
ANT	0	87-006-225-010		AM LOOP ANT NC2	AB.DE.....

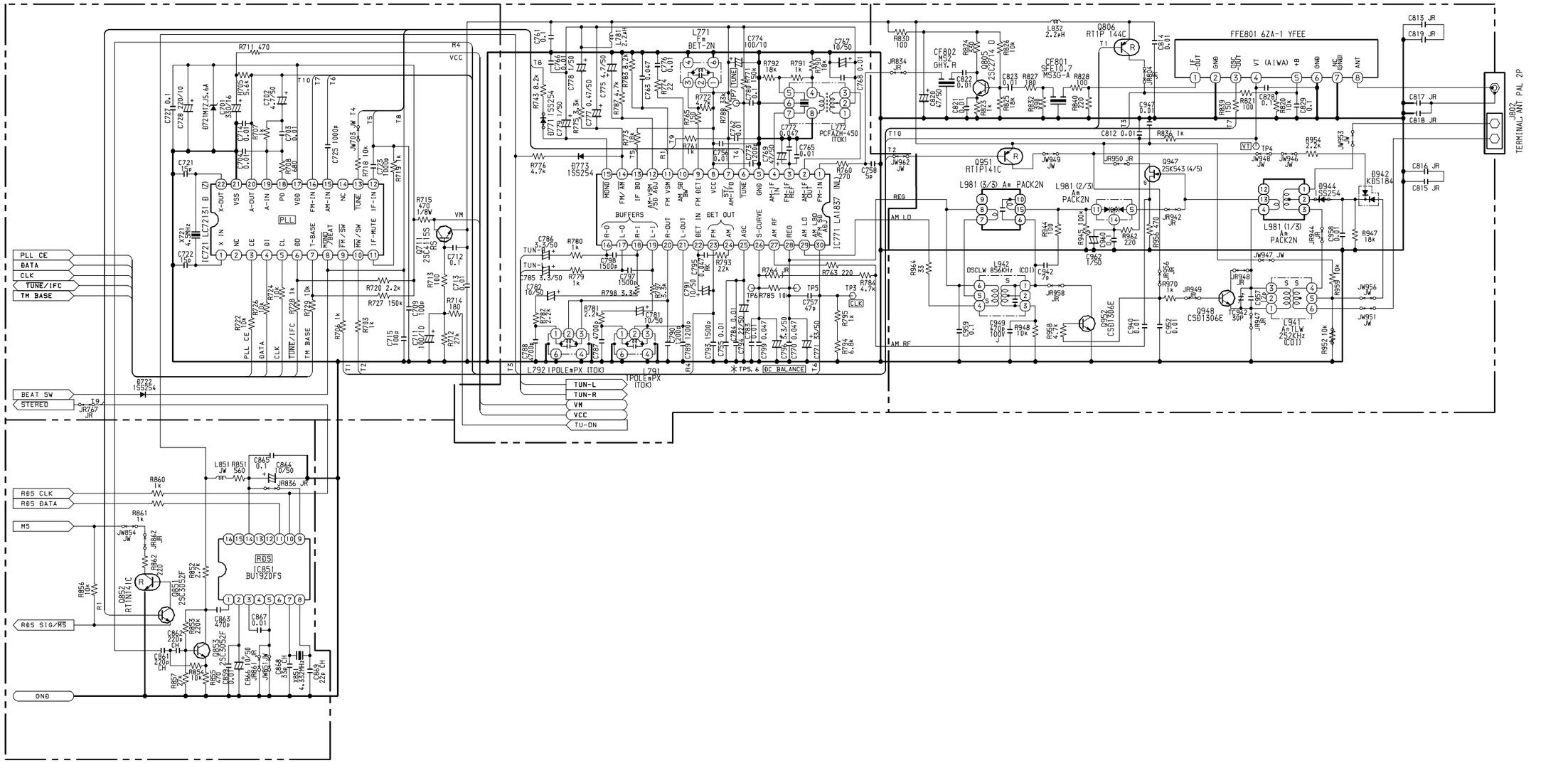
SCHEMATIC DIAGRAM – 1 (EZ : MAIN)



SCHEMATIC DIAGRAM – 2 (K : MAIN)



SCHEMATIC DIAGRAM – 3 (EZ : TUNER)



B-8NF-26MN-EZ (P3)

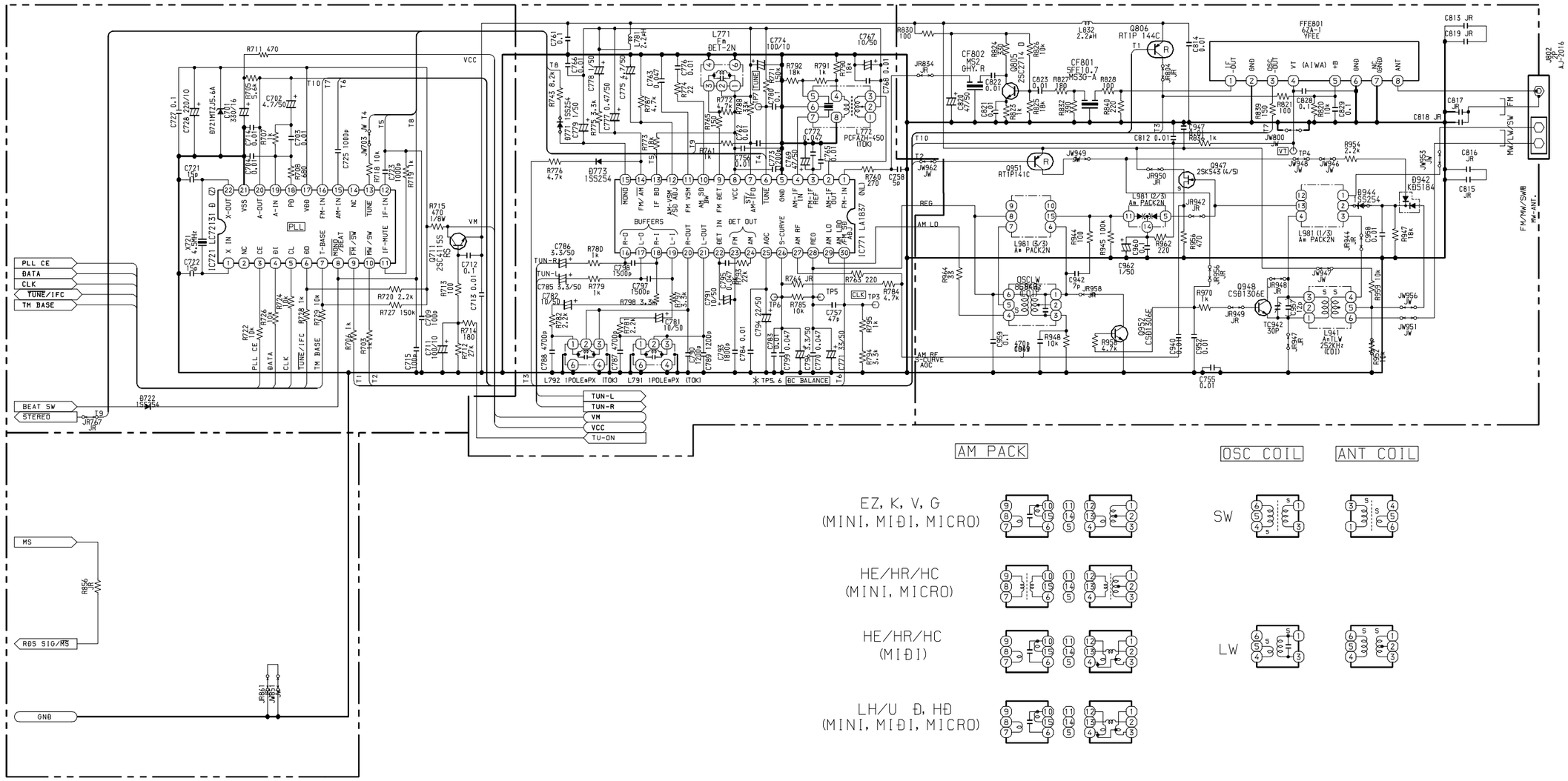
SCHEMATIC DIAGRAM (TUNER)

KSS

8NF-26-EZ CX-NAV720EZ

20 APR 1998

SCHEMATIC DIAGRAM – 4 (K : TUNER)



B-8NF-26MN-K (P3)

(TUNER)
SCHEMATIC ĐIAGRAM

8NF-26K CX-NAV720K
23 APR 1998

SLP-7118C

PWB·SW

PWB·FRONT

SPEANA

MIC

NOTE DIODE NO.MARK IS 1SS254

8NF-26FRONT-EZ

山崎

(FRONT)

SCHEMATIC DIAGRAM

14.5.98 ADD C126 0.1

14.5.98 CHANGE C122 0.047→0.1

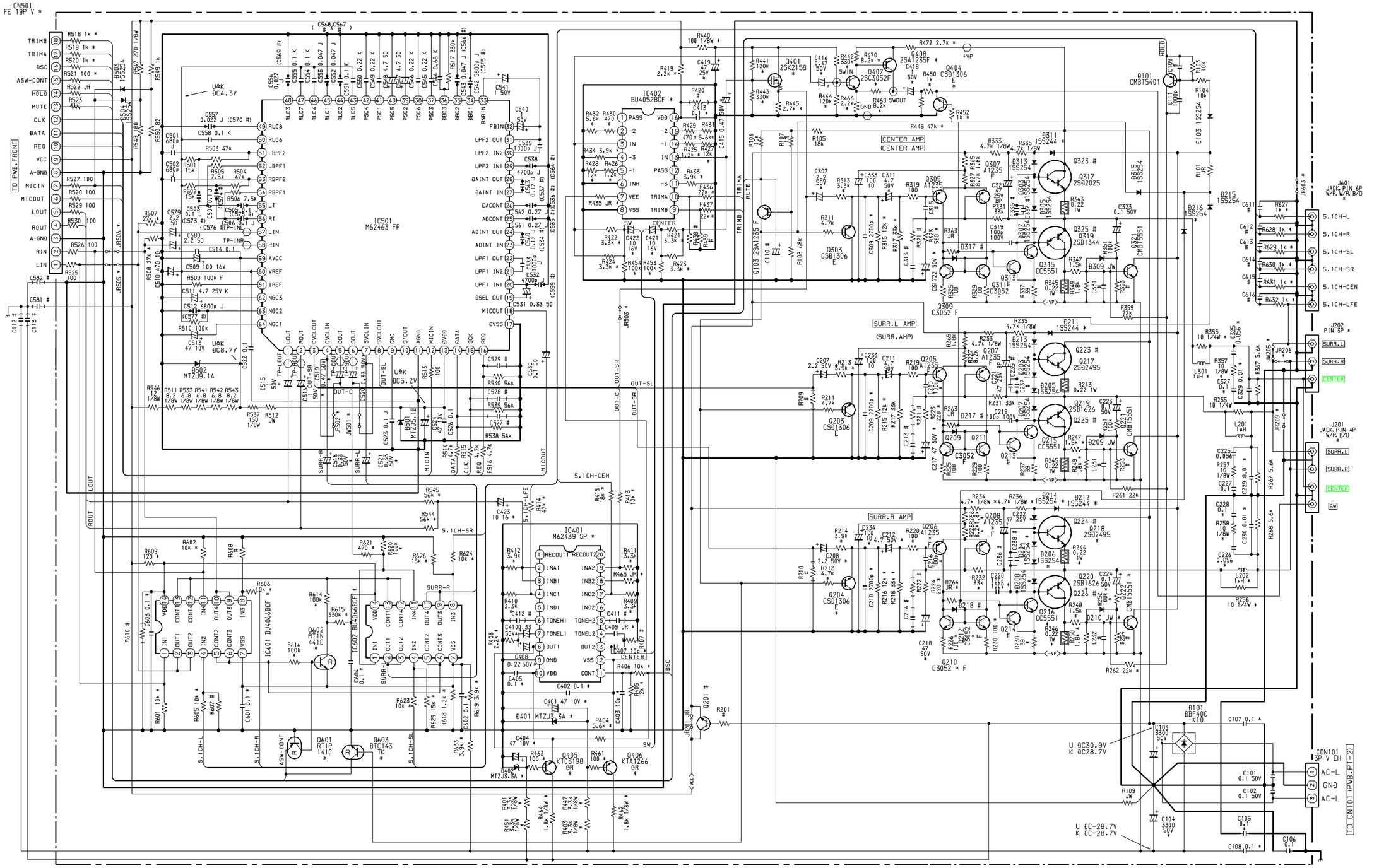
8NF-26EZ

CX-NAV720EZ

14 MAY 1998

B-8NF-26FR-EZ

SCHEMATIC DIAGRAM – 6 (PRO)

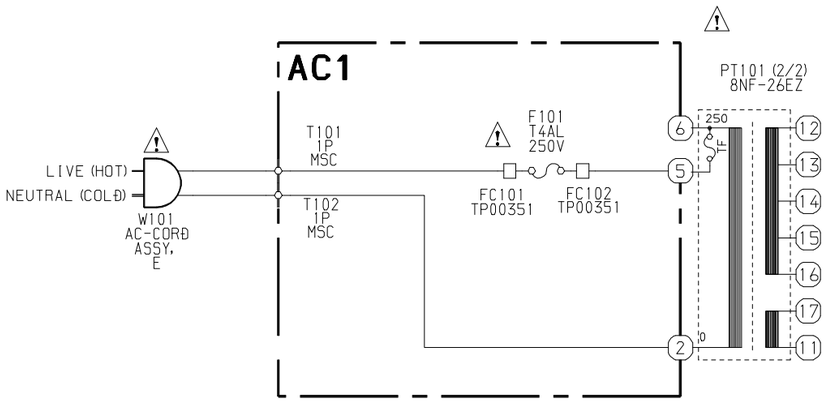


T.SHIMIZU.SHIMIZU
(PRO-LOGIC)
SCHEMATIC DIAGRAM

8ZA-4

8ZA-4 PRO5.1CHM
03 MAR 1998

SCHEMATIC DIAGRAM – 7 (PT)



H.ITO

(PT1)

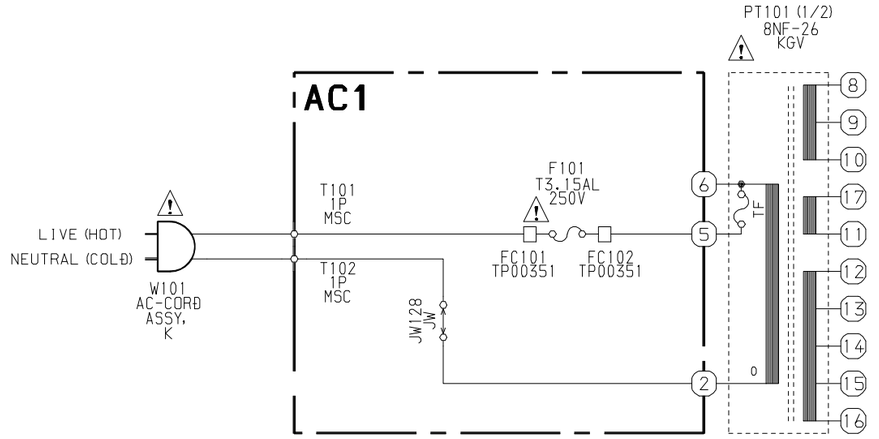
SCHEMATIC DIAGRAM

KSS

8NF-26-EZ CX-NAV720EZ

20 APR 1998

B-8NF-26MN-EZ (P2)



H.ITO

(PT1)

SCHEMATIC DIAGRAM

8NF-26K CX-NAV720K

23 APR 1998

B-8NF-26MN-K (P2)

サービス技術ニュース	
番号	連絡内容
G－　－	
G－　－	
G－　－	

アイワ株式会社
AIWA CO.,LTD.

9301978,750038

Tokyo Japan

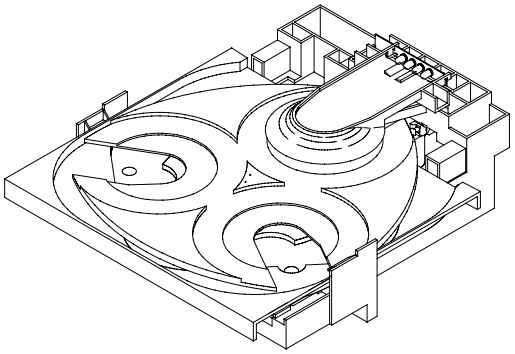
〒110　東京都台東区池之端1-2-11　　☎03（3827）3111（代表）

Printed in Singapore

aiwa

aiwa SERVICE

4ZG-1



CD MECHANISM

• BASIC CD MECHANISM:3ZG-2 E1

• TYPE: English

BASIC NAME	DERIVATION NAME					
4ZG-1	V	O	S1	D	SH	

■ This Service Manual has various derivation.Derivation name is indicated by the Service Manual for each model.

SERVICE MANUAL

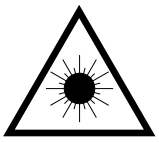
S/M Code No 09-985-249-80T

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynling laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

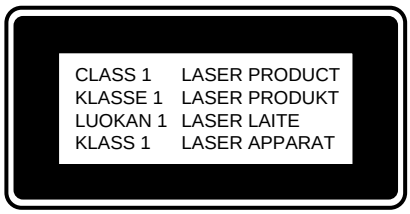
ATTENTION

L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

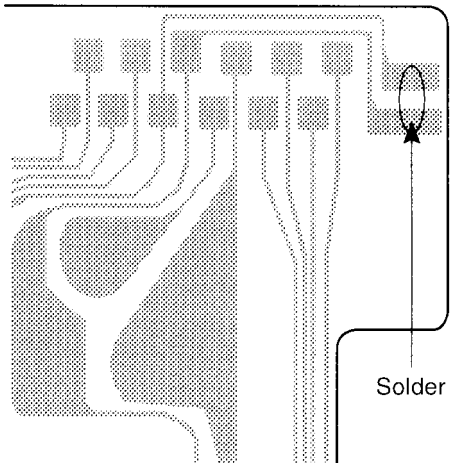


Precaution to replace Optical block (KSS-213F)

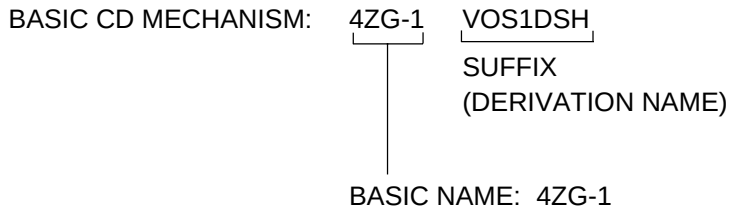
Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in the right figure.

PICK-UP Assy P.C.B



This is the SERVICE MANUAL for the BASIC CD MECHANISM of BASIC NAME: 4ZG-1. This BASIC NAME includes the following models as shown under the SUFFIX name: DERIVATION NAME. Please use this manual with the separate SERVICE MANUAL for DERIVATION NAME.



BASIC NAME	DERIVATION NAME							
4ZG-1	V	O	S1	D	SH	—	—	—

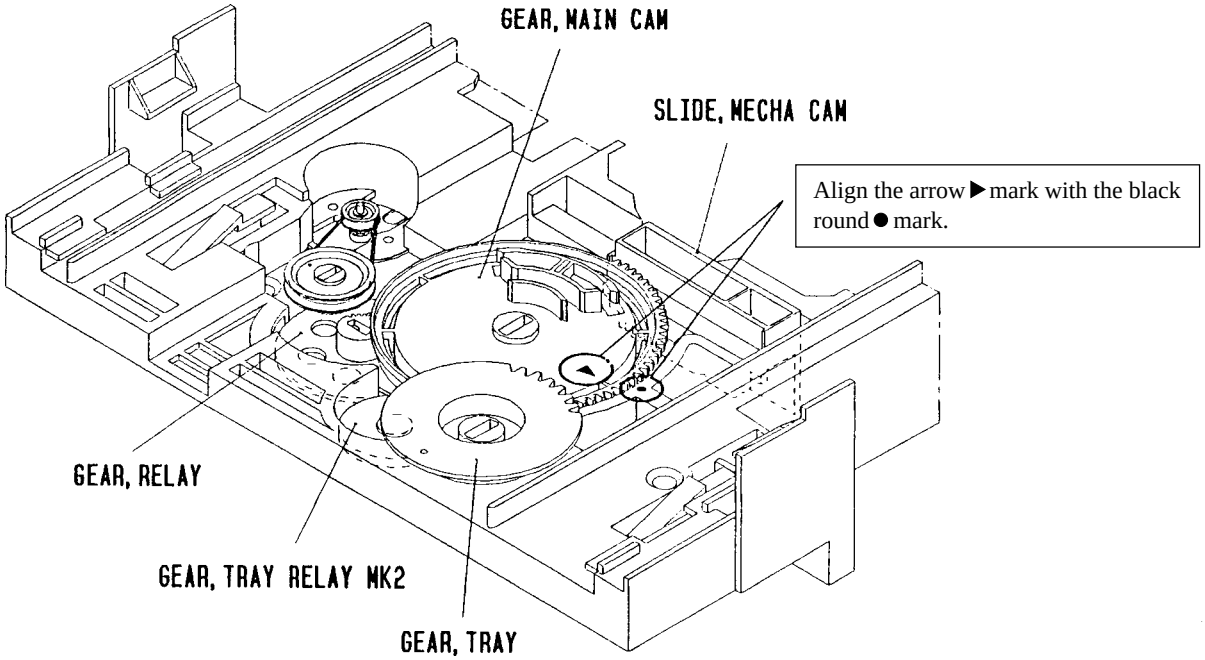
DERIVATION NAME

- V: VIDEO OUT
- O: On screen display
- S1: THE 1st SONY IC MODEL
- D: Digital output function
- SH: Pick up equipped with shutter

How to Adjust the Rotating Phase of the Gear, Main Cam

1) Push down the hooking catch of the CHAS. MECH, and remove the TRAY.
2) Align the arrow mark of the Gear, Main Cam with the black round mark of the CHAS, MECHA as shown below.
3) Confirm that the Slide, Mech Cam is located in the right position, then insert the TRAY gently.

Caution: If the rotating phase of the Gear, Main Cam is incorrectly adjusted, the chucking operation and tray movement will have malfunction.



ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

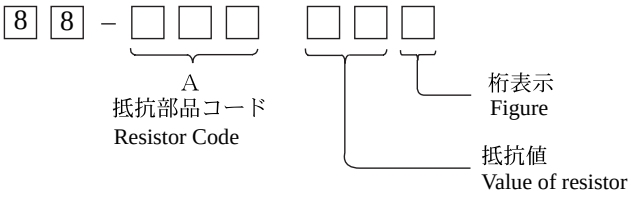
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A20-547-010		C-IC,CXA1992AR
	87-A20-919-040		C-IC,BA5915FP
	87-A20-917-010		C-IC,CXD2540Q-1/2
	84-ZG1-697-010		C-IC,UPD78016FGC-549
	87-017-825-010		IC,GP1F32T
	87-017-760-080		IC,M51943BML
	87-A20-602-040		C-IC,M5291FP
	87-A20-925-040		C-IC,BA05FP
	87-A20-905-040		C-IC,BA033FP
	87-001-873-010		IC,LB1644
	87-A20-920-010		C-IC,CL680-D1
	87-A20-921-040		C-IC,SN74LVU04APW
	87-A20-656-040		C-IC,MB81V4260S-60/70PFTN
	84-ZG1-695-040		C-IC,LH5V2RN1
	87-A20-975-040		C-IC,SN74LV74APW
	87-A20-974-040		C-IC,LC74781M-9017
	87-A20-918-040		C-IC,SM5878AM
TRANSISTOR			
	87-026-463-080		TR,2SA933S (0.3W)
	87-026-237-080		CHIP-TR,DTC124XK
	89-327-125-080		CHIP TR,2SC2712GR
	87-026-231-080		CHIP-TRANSISTER,DTA124XK
	87-A30-117-010		TR,2SA1357
	89-111-625-080		TR,2SA1162 (0.15W)
	87-026-580-080		C-TR,DTA123JK
	87-026-470-080		TR,HN1C03F (0.3W)
DIODE			
	87-020-027-080		CHIP-DIODE 1SS184
	87-017-024-040		C-DIODE,DA204K
	87-A40-180-040		C-DIODE,SB07-015C
	87-A40-384-080		C-ZENER,UDZ3.3B
3CD C.B			
C101	87-010-182-080		C-CAP,S 2200P-50 B
C102	87-016-669-080		C-CAP,S 0.1-25 K B
C103	87-016-669-080		C-CAP,S 0.1-25 K B
C104	87-016-669-080		C-CAP,S 0.1-25 K B
C105	87-010-404-040		CAP,E 4.7-50 SME
C106	87-016-369-080		C-CAP,S 0.033-25 B K
C107	87-010-197-080		CAP, CHIP 0.01 DM
C108	87-010-401-040		CAP,E 1-50 SME
C109	87-010-382-040		CAP,E 22-25 SME
C110	87-010-213-080		C-CAP,S 0.015-50 B
C111	87-010-263-040		CAP,E 100-10
C112	87-010-197-080		CAP, CHIP 0.01 DM
C113	87-016-369-080		C-CAP,S 0.033-25 B K
C114	87-016-369-080		C-CAP,S 0.033-25 B K
C115	87-016-369-080		C-CAP,S 0.033-25 B K
C116	87-012-158-080		C-CAP,S 390P-50 CH
C117	87-012-154-080		C-CAP,S 150P-50 CH
C118	87-010-494-040		CAP,E 1-50 GAS
C119	87-010-152-080		C-CAP,S 8P-50 CH
C120	87-010-992-080		C-CAP,S 0.047-25 B
C121	87-010-992-080		C-CAP,S 0.047-25 B
C123	87-016-669-080		C-CAP,S 0.1-25 K B
C125	87-010-198-080		CAP, CHIP 0.022
C126	87-016-669-080		C-CAP,S 0.1-25 K B
C127	87-010-555-040		CAP,E 100-10 GAS
C130	87-010-555-040		CAP,E 100-10 GAS
C131	87-010-555-040		CAP,E 100-10 GAS
C132	87-010-178-080		CHIP CAP 1000P
C133	87-010-555-040		CAP,E 100-10 GAS
C134	87-010-196-080		CHIP CAPACITOR,0.1-25
C135	87-010-196-080		CHIP CAPACITOR,0.1-25
C136	87-010-196-080		CHIP CAPACITOR,0.1-25
C137	87-010-196-080		CHIP CAPACITOR,0.1-25
C138	87-010-182-080		C-CAP,S 2200P-50 B
C139	87-010-197-080		CAP, CHIP 0.01 DM
C140	87-010-112-040		CAP,E 100-16
C141	87-010-196-080		CHIP CAPACITOR,0.1-25
C142	87-010-196-080		CHIP CAPACITOR,0.1-25
C143	87-010-213-080		C-CAP,S 0.015-50 B
C151	87-010-263-040		CAP,E 100-10
C152	87-010-197-080		CAP, CHIP 0.01 DM
C153	87-A10-893-040		CAP,E 220-10 M PW
C154	87-010-197-080		CAP, CHIP 0.01 DM
C155	87-010-184-080		CHIP CAPACITOR 3300P(K)
C156	87-010-992-080		C-CAP,S 0.047-25 B
C157	87-010-992-080		C-CAP,S 0.047-25 B
C158	87-012-156-080		C-CAP,S 220P-50 CH
C159	87-016-526-080		C-CAP,S 0.47-16 BK
C160	87-010-314-080		C-CAP,S 22P-50V
C161	87-010-182-080		C-CAP,S 2200P-50 B
C162	87-010-178-080		CHIP CAP 1000P
C201	87-016-669-080		C-CAP,S 0.1-25 K B
C204	87-010-197-080		CAP, CHIP 0.01 DM
C205	87-010-379-040		CAP,E 22-16 M SME
C206	87-010-322-080		C-CAP,S 100P-50 CH
C207	87-010-322-080		C-CAP,S 100P-50 CH
C208	87-010-322-080		C-CAP,S 100P-50 CH
C209	87-010-322-080		C-CAP,S 100P-50 CH
C210	87-016-669-080		C-CAP,S 0.1-25 K B
C211	87-010-263-040		CAP,E 100-10
C213	87-010-190-080		S CHIP F 0.01
C214	87-010-196-080		CHIP CAPACITOR,0.1-25
C301	87-016-251-040		CAP,E 220-16 SMG
C302	87-012-140-080		CAP 470P
C303	87-010-178-080		CHIP CAP 1000P
C304	87-010-384-040		CAP,E 100-25 SME
C305	87-010-982-040		CAP,E 33-25 GAS
C306	87-010-112-040		CAP,E 100-16
C307	87-010-196-080		CHIP CAPACITOR,0.1-25
C308	87-010-263-040		CAP,E 100-10
C309	87-010-196-080		CHIP CAPACITOR,0.1-25
C310	87-010-263-040		CAP,E 100-10
C311	87-010-196-080		CHIP CAPACITOR,0.1-25
C312	87-010-178-080		CHIP CAP 1000P
C320	87-010-196-080		CHIP CAPACITOR,0.1-25
C401	87-016-044-040		CAP,E 100-16 GAS
C402	87-010-190-080		S CHIP F 0.01
C403	87-010-190-080		S CHIP F 0.01
C501	87-010-197-080		CAP, CHIP 0.01 DM
C502	87-010-197-080		CAP, CHIP 0.01 DM
C503	87-010-197-080		CAP, CHIP 0.01 DM
C504	87-010-154-080		CAP CHIP 10P
C505	87-010-154-080		CAP CHIP 10P
C506	87-010-197-080		CAP, CHIP 0.01 DM
C508	87-010-263-040		CAP,E 100-10
C509	87-016-669-080		C-CAP,S 0.1-25 K B
C510	87-010-263-040		CAP,E 100-10
C511	87-016-669-080		C-CAP,S 0.1-25 K B
C512	87-010-197-080		CAP, CHIP 0.01 DM
C513	87-010-197-080		CAP, CHIP 0.01 DM
C514	87-010-197-080		CAP, CHIP 0.01 DM
C518	87-010-322-080		C-CAP,S 100P-50 CH
C519	87-012-145-080		CAP, CHIP S 270P CH
C520	87-012-157-080		C-CAP,S 330P-50 CH
C521	87-012-154-080		C-CAP,S 150P-50 CH
C522	87-010-371-080		CAP, ELECT 470-6.3V
C523	87-010-197-080		CAP, CHIP 0.01 DM
C524	87-010-197-080		CAP, CHIP 0.01 DM
C525	87-010-197-080		CAP, CHIP 0.01 DM
C526	87-010-197-080		CAP, CHIP 0.01 DM

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C527	87-010-197-080		CAP, CHIP 0.01 DM
C528	87-010-197-080		CAP, CHIP 0.01 DM
C529	87-010-197-080		CAP, CHIP 0.01 DM
C530	87-010-197-080		CAP, CHIP 0.01 DM
C531	87-010-197-080		CAP, CHIP 0.01 DM
C532	87-010-374-040		CAP,E 47-10
C533	87-010-197-080		CAP, CHIP 0.01 DM
C534	87-010-555-040		CAP,E 100-10 GAS
C535	87-010-197-080		CAP, CHIP 0.01 DM
C536	87-010-078-040		CAP,E 47-6.3 5L
C537	87-010-197-080		CAP, CHIP 0.01 DM
C538	87-010-196-080		CHIP CAPACITOR,0.1-25
C539	87-016-669-080		C-CAP,S 0.1-25 K B
C540	87-010-078-040		CAP,E 47-6.3 5L
C541	87-010-197-080		CAP, CHIP 0.01 DM
C542	87-010-318-080		C-CAP,S 47P-50 CH
C544	87-010-197-080		CAP, CHIP 0.01 DM
C546	87-010-197-080		CAP, CHIP 0.01 DM
C549	87-010-494-040		CAP,E 1-50 GAS
C550	87-010-196-080		CHIP CAPACITOR,0.1-25
C551	87-012-153-080		C-CAP,S 120P-50 CH
C552	87-016-526-080		C-CAP,S 0.47-16 BK
C554	87-010-197-080		CAP, CHIP 0.01 DM
C556	87-010-378-040		CAP,E 10-16
C557	87-010-316-080		C-CAP,S 33P-50 CH
C558	87-010-315-080		C-CAP,S 27P-50 CH
C560	87-010-197-080		CAP, CHIP 0.01 DM
C601	87-010-197-080		CAP, CHIP 0.01 DM
C602	87-010-197-080		CAP, CHIP 0.01 DM
C603	87-010-112-040		CAP,E 100-16
C604	87-010-196-080		CHIP CAPACITOR,0.1-25
C605	87-010-197-080		CAP, CHIP 0.01 DM
C606	87-010-197-080		CAP, CHIP 0.01 DM
C607	87-010-313-080		CAP, CHIP 18P
C608	87-010-313-080		CAP, CHIP 18P
C609	87-010-178-080		CHIP CAP 1000P
C610	87-010-178-080		CHIP CAP 1000P
C611	87-010-178-080		CHIP CAP 1000P
C612	87-010-178-080		CHIP CAP 1000P
C613	87-010-403-040		CAP,E 3.3-50 SME
C614	87-010-403-040		CAP,E 3.3-50 SME
C615	87-010-318-080		C-CAP,S 47P-50 CH
C616	87-010-318-080		C-CAP,S 47P-50 CH
CN101	87-A60-424-010		CONN,16P V TOC-B
CN102	87-099-199-010		CONN,6P 6216 H
CN401	87-099-212-010		CONN,5P 6216 V
CN403	87-099-030-010		CONN,13P 6216H
J501	87-009-502-010		JACK,PIN 1P Y EARTH
L101	87-005-196-080		COIL,10UH
L301	87-A50-095-010		COIL,68UH RCR875D
L302	87-005-426-080		COIL,3.3UH K FLR50
L502	87-005-204-080		COIL,47UH
L503	87-005-189-080		COIL 2.7UH
L504	87-005-187-080		COIL,1.8UH
L505	87-005-204-080		COIL,47UH
L506	87-005-204-080		COIL,47UH
L507	87-005-204-080		COIL,47UH
L508	87-005-817-080		C-COIL, 33UH J FLC32
M401	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
R130	87-022-364-080		C-RES,S 82K-1/10W F
R131	87-022-364-080		C-RES,S 82K-1/10W F
R132	87-022-364-080		C-RES,S 82K-1/10W F
R133	87-022-364-080		C-RES,S 82K-1/10W F
R134	87-022-364-080		C-RES,S 82K-1/10W F
R135	87-022-364-080		C-RES,S 82K-1/10W F
R507	87-A00-408-080		C-RES,S 2K-1/10W D
S201	87-A90-162-010		SW,SL 1-1-3 SSSU
S401	87-036-109-010		PUSH SWITCH
S402	87-036-109-010		PUSH SWITCH
W1	84-ZG1-673-010		F-CABLE,5P 1.25 210MM BLACK N
W2	85-NFT-611-110		FF-CABLE 16P-1.0
W3	84-ZG1-630-010		CABLE FFC 6P-1.25
X201	87-A70-124-080		VIB,CER 8.0MHZ
X501	87-A70-125-080		VIB,XTAL 27MHZ 50PPM
X601	87-030-270-080		VIB,XTAL 16.9344MHZ
LED C.B			
LED401	87-070-200-080		LED,SLP636C-81-S-T1
LED402	87-017-350-080		LED,SEL1550CM
LED403	87-017-350-080		LED,SEL1550CM
LED404	87-070-200-080		LED,SLP636C-81-S-T1
T-T C.B			
C401	87-018-214-080		CAP TC U 0.1-50F
CON401	86-NFZ-675-010		CONN,5P H 6216-11H
PS401	87-026-573-010		IC,GP1S53V
DRIVE C.B			
CN3	87-009-349-010		CONN,6P H WHT PH
M20	87-045-358-010		MOT,RF-310TA 43
M21	87-045-356-010		MOT,RF-310TA 30
SW1	87-A90-042-010		SW,LEAF MSW-17310MVPO
CD MOTOR C.B			
CN4	87-099-210-010		CONN,5P H BLK 6216
M1	87-045-305-010		MOT,RF-500TB
SW1	87-035-110-010		SW,MICRO SPPB62
SW2	87-035-110-010		SW,MICRO SPPB62

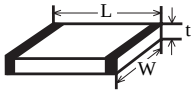
- Regarding connectors, they are not stocked as they are not the initial order items.
  The connectors are available after they are supplied from connector manufacturers upon the order is received.

○ チップ抵抗部品コード / CHIP RESISTOR PART CODE

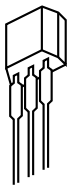
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



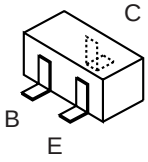
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法 / Diamensions (mm)				抵抗コード　: A Resistor Code : A
				外形 / Form	L	W	t	
1/16W	1608	5%	CJ		1.6	0.8	0.45	108
1/10W	2125	5%	CJ		2	1.25	0.45	118
1/8W	3216	5%	CJ		3.2	1.6	0.55	128

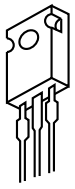
TRANSISTOR ILLUSTRATION



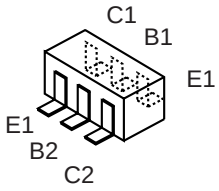
2SA933S



2SA1162
2SC2712
DTA123JK
DTA124XK
DTC124XK

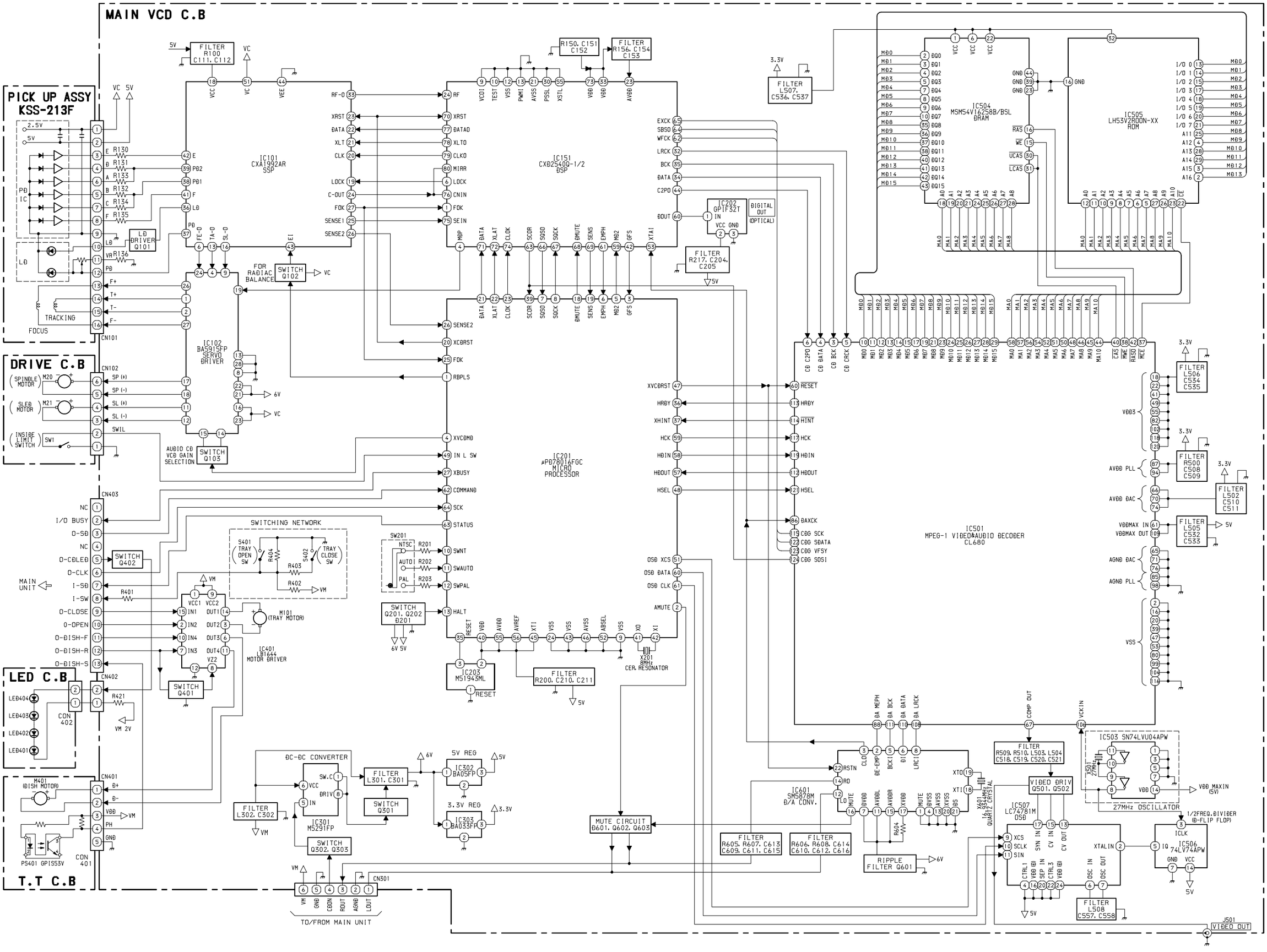


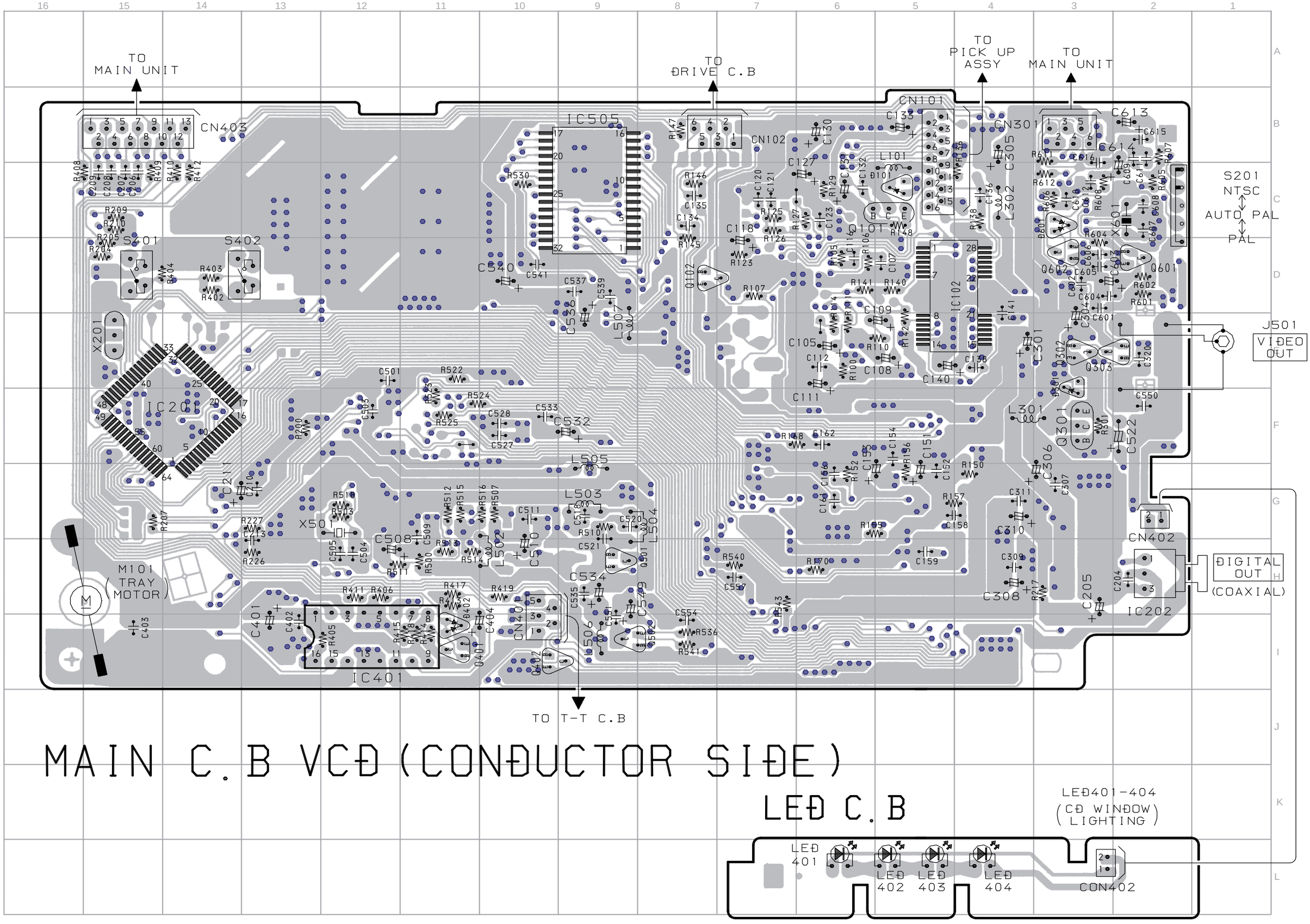
2SA1357

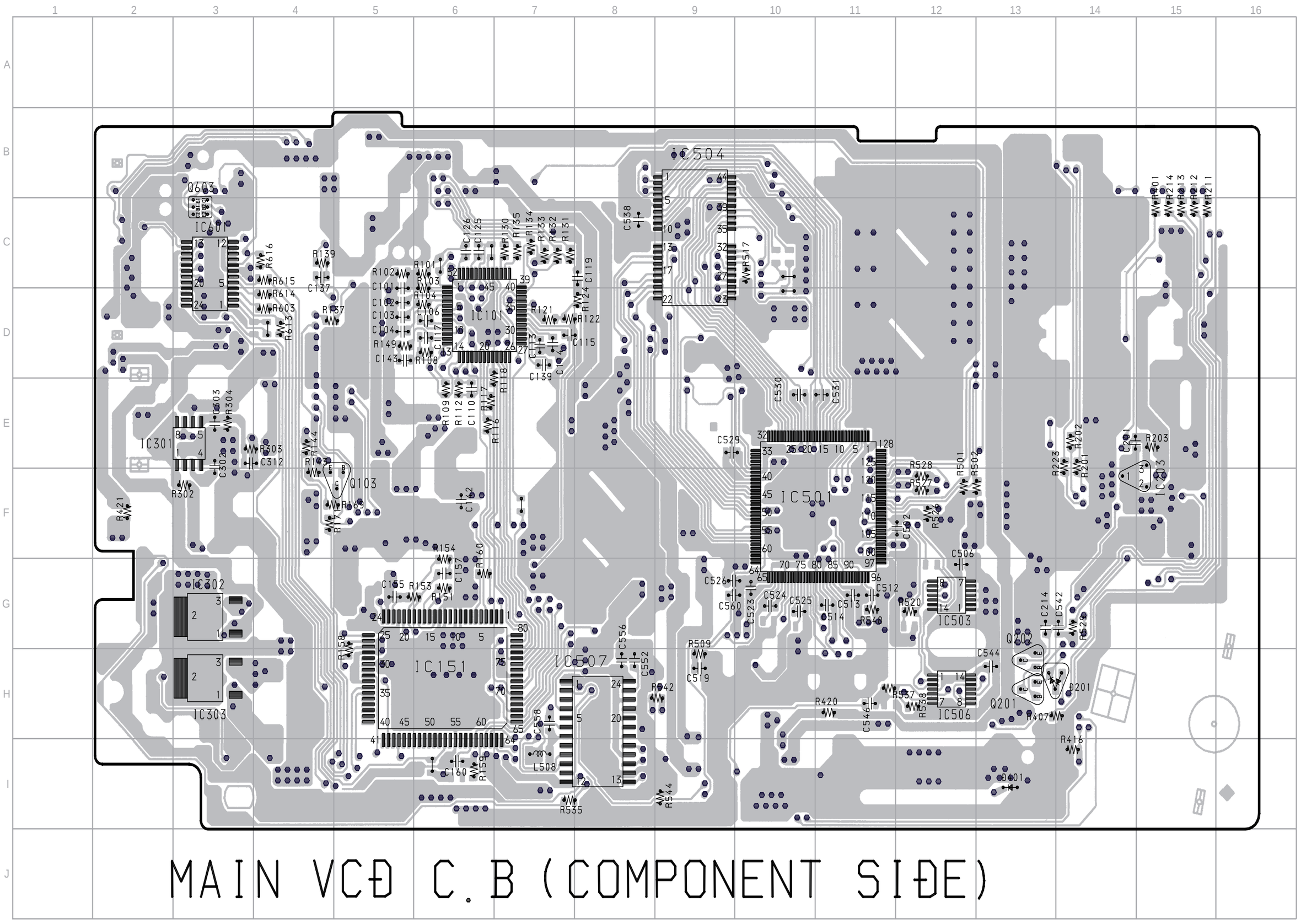


HN1C03F

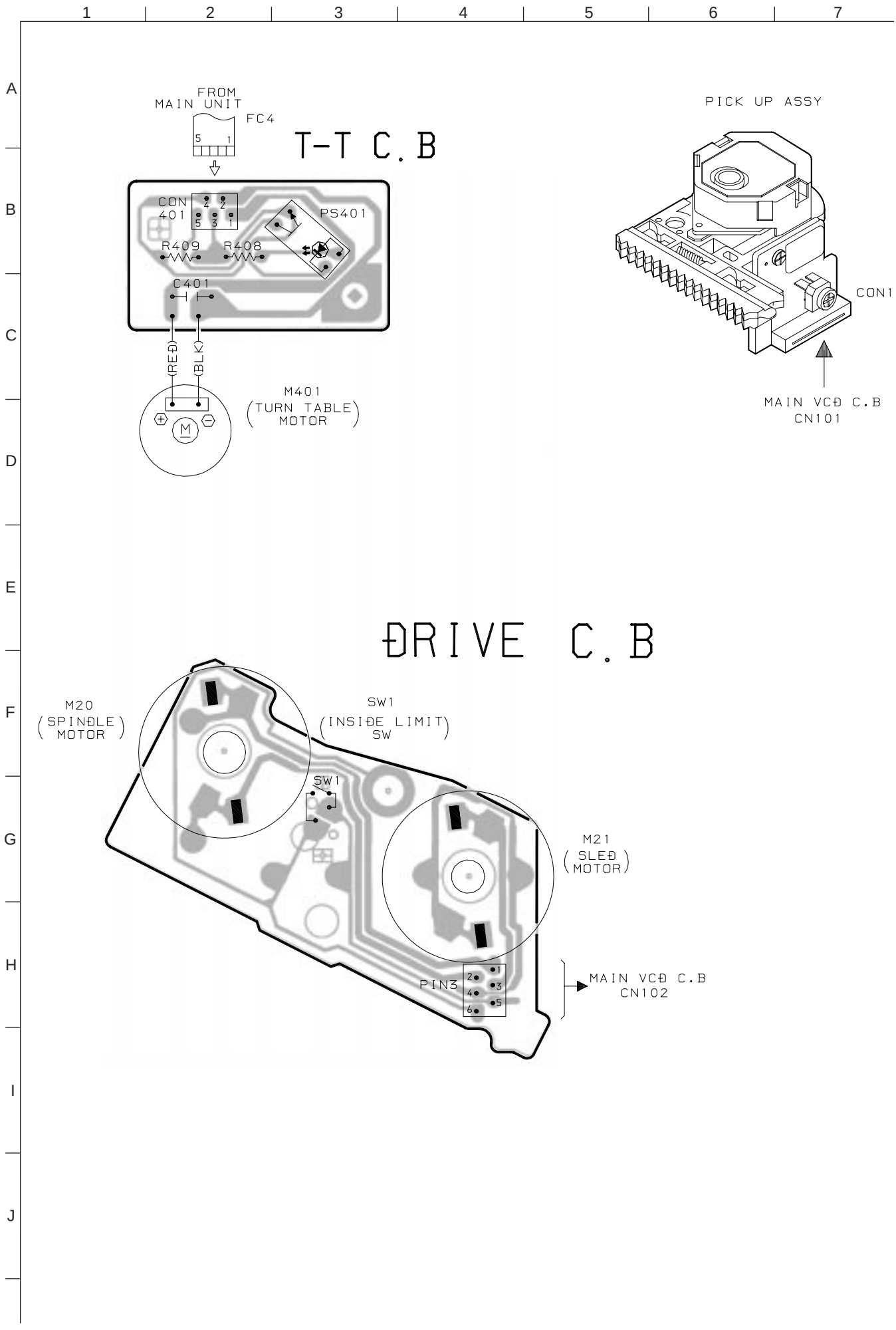
BLOCK DIAGRAM



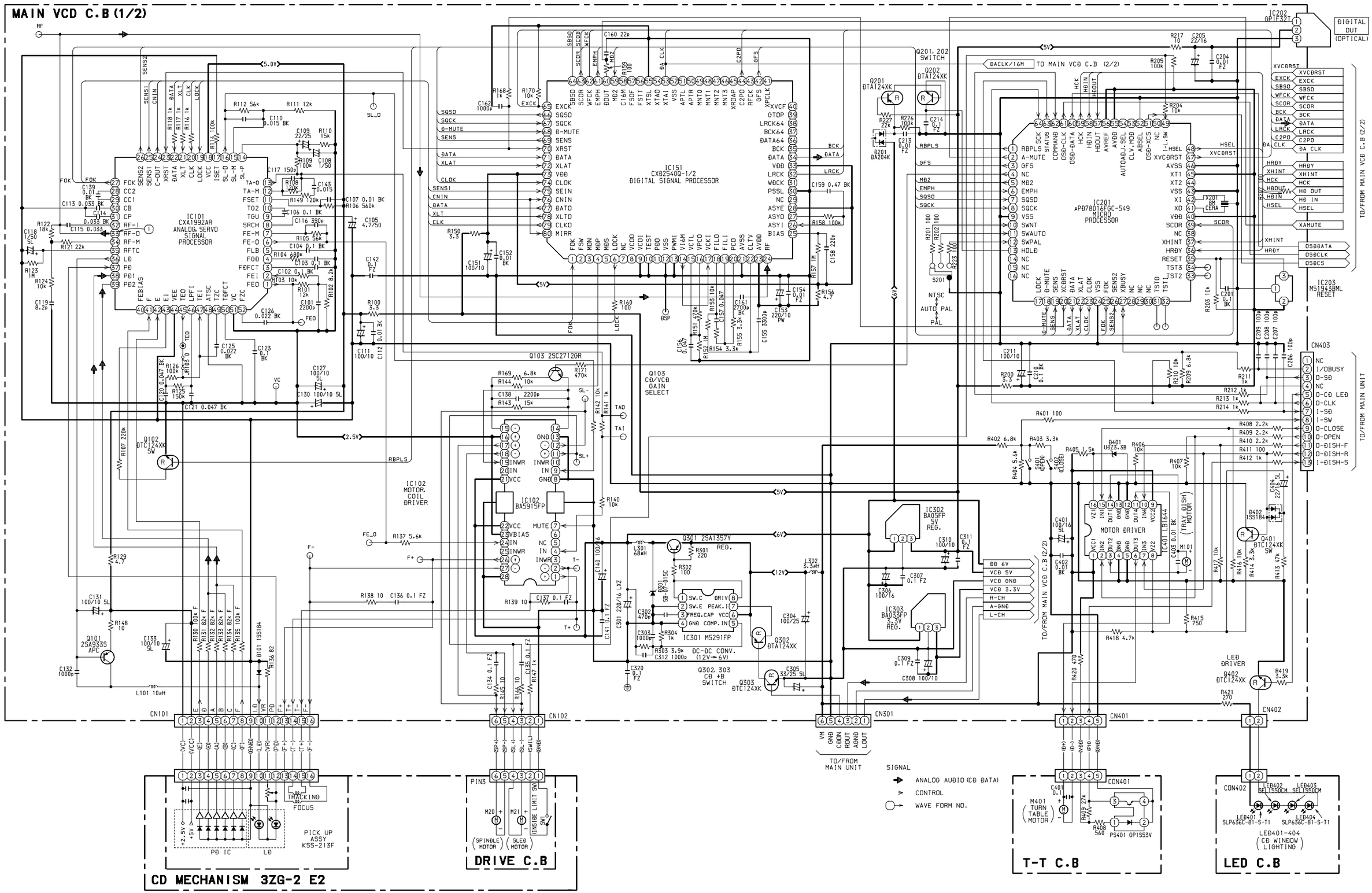

TO MAIN UNIT
TO ÐRIVE C.B
TO PICK UP ASSY
TO MAIN UNIT
CN403
CN102
CN101
CN301
CN402
IC505
IC201
IC401
IC202
IC102
S401
S402
S201 NTSC AUTO PAL PAL
J501 VIÐEO OUT
ÐIGITAL OUT (COAXIAL)
M101 (TRAY MOTOR)
TO T-T C.B
MAIN C.B VCÐ (CONÐUCTOR SIÐE)
LEÐ C.B
LEÐ401-404 (CÐ WINÐOW LIGHTING)
LEÐ 401
LEÐ 402
LEÐ 403
LEÐ 404
CON402

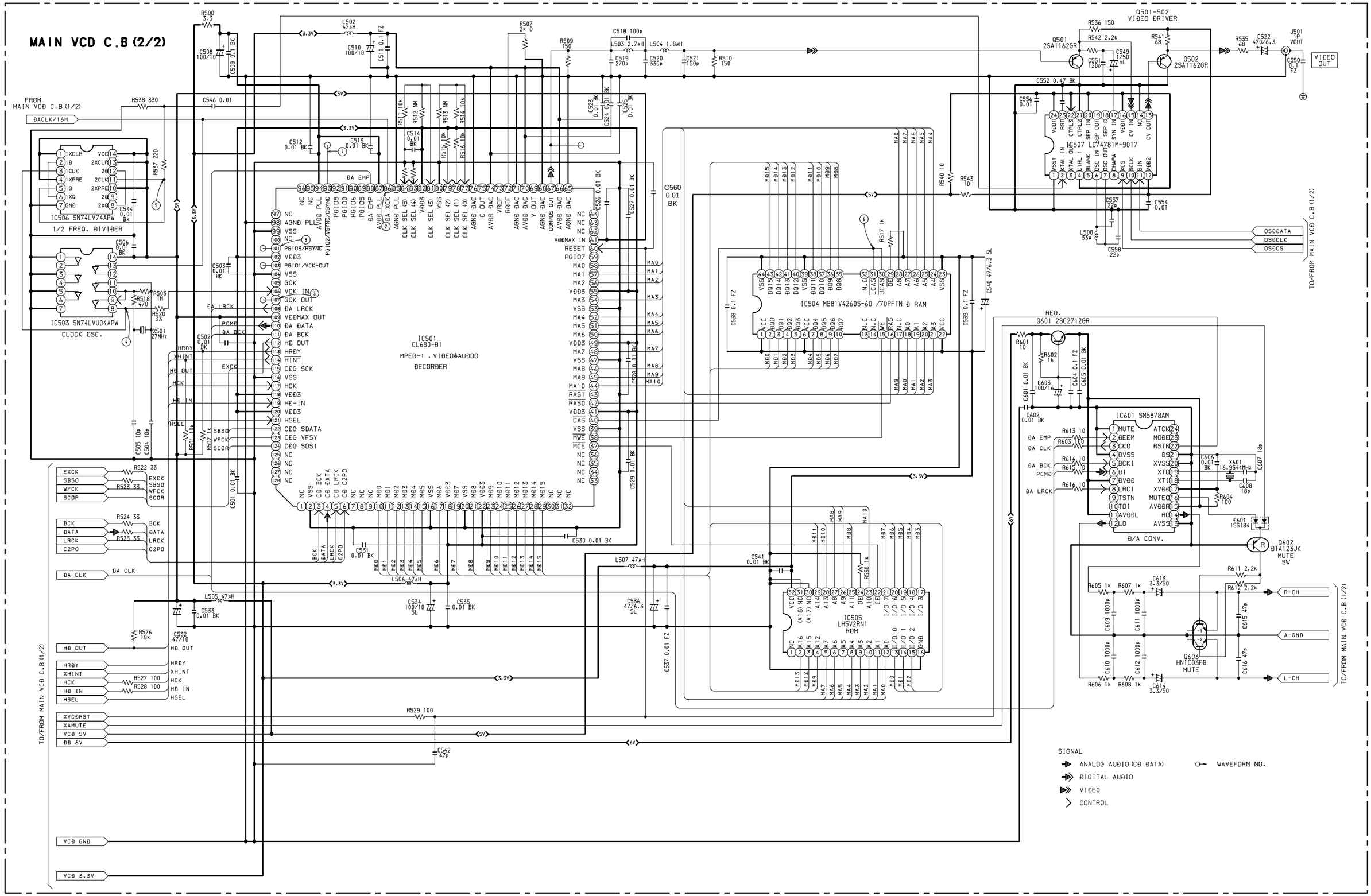


MAIN VCÐ C.B (COMPONENT SIÐE)


FROM
MAIN UNIT
FC4
5
1
T-T C.B
CON
401
4
2
5
3
1
PS401
R409
R408
C401
(RED)
(BLK)
M401
(TURN TABLE
MOTOR)
M
PICK UP ASSY
CON1
MAIN VCD C.B
CN101
DRIVE C.B
M20
(SPINDLE
MOTOR)
SW1
(INSIDE LIMIT
SW)
SW1
M21
(SLED
MOTOR)
PIN3
1
2
3
4
5
6
MAIN VCD C.B
CN102

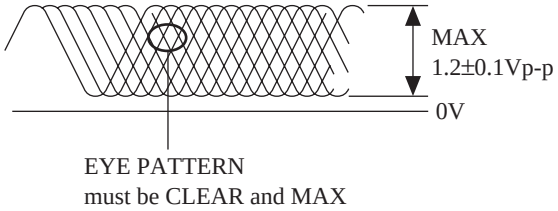
SCHEMATIC DIAGRAM-1




MAIN VCD C.B (2/2)
FROM MAIN VCD C.B (1/2)
ÐACLK/16M
IC506 SN74LV74APW
1/2 FREQ. ÐIVIÐER
IC503 SN74LVU04APW
CLOCK OSC.
X501 27MHz
IC501 CL680-Ð1
MPEG-1 . VIÐEO&AUÐIO ÐECORÐER
IC504 MB81V4260S-60 /70PFTN Ð RAM
IC505 LH5V2RN1 ROM
IC507 LC74781M-9017
Q501-502 VIÐEO ÐRIVER
Q501 2SA1162GR
Q502 2SA1162GR
REG. Q601 2SC2712GR
IC601 SM5878AM
Ð/A CONV.
Q602 ÐTA123JK MUTE SW
Q603 HN1C03FB MUTE
D601 1SS184
VIÐEO OUT
TO/FROM MAIN VCÐ C.B (1/2)
TO/FROM MAIN VCÐ C.B (1/2)
OSÐÐATA
OSÐCLK
OSÐCS
R-CH
A-GNÐ
L-CH
SIGNAL
ANALOG AUÐIO (CÐ ÐATA)
ÐIGITAL AUÐIO
VIÐEO
CONTROL
WAVEFORM NO.

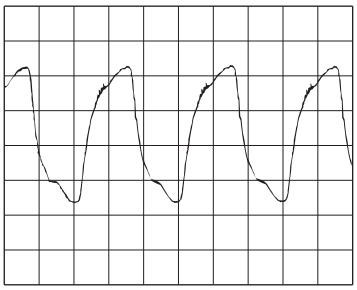
WAVE FORM

① IC101 Pin ㉝ (RF-O)
VOLT/DIV: 200mV
TIME/DIV: 0.5µS

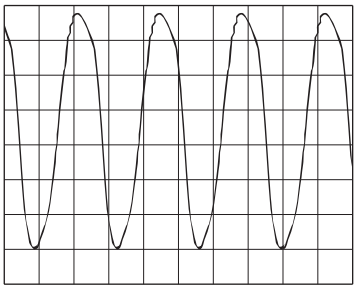


EYE PATTERN
must be CLEAR and MAX

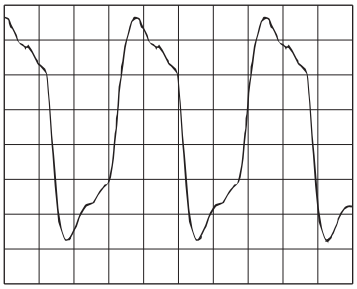
② IC501 Pin ㊽ DA XCK
16.93MHz
VOLT/DIV: 1V
TIME/DIV: 20nS



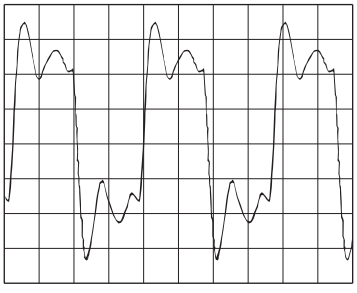
③ IC501 Pin ⑩⑦ GCK OUT
42.3MHz
VOLT/DIV: 1V
TIME/DIV: 10nS



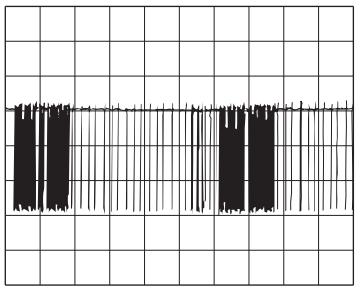
④ IC503 Pin ⑧ 33 VCK
27MHz±1.35kHz
VOLT/DIV: 1V
TIME/DIV: 10nS



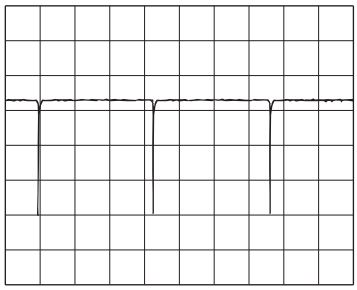
⑤ IC506 Pin ⑪ OSD CLK
13.5MHz±675Hz
VOLT/DIV: 1V
TIME/DIV: 20nS



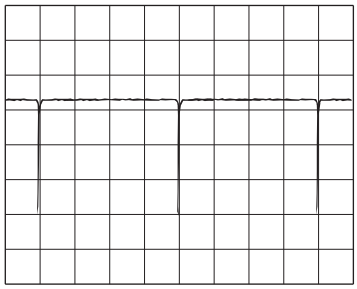
⑥ IC504 Pin ㉚ $\overline{\text{UCAS}}$
(Pin ㉛ $\overline{\text{LCAS}}$)
VOLT/DIV: 1V
TIME/DIV: 2µS



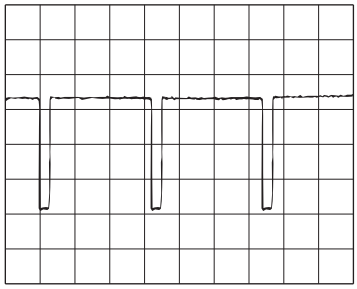
⑦ IC501 Pin ㉝ $\overline{\text{VSync}}$
NTSC
VOLT/DIV: 1V
TIME/DIV: 5mS



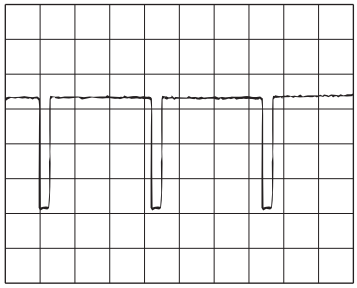
⑧ IC501 Pin ㉝ $\overline{\text{VSync}}$
PAL
VOLT/DIV: 1V
TIME/DIV: 5mS



⑧ IC501 Pin ⑩① $\overline{\text{HSync}}$
PAL
VOLT/DIV: 1V
TIME/DIV: 20µS



IC501 Pin ⑩① $\overline{\text{HSync}}$
NTSC
VOLT/DIV: 1V
TIME/DIV: 20µS



IC DESCRIPTION

IC, CXA1992AR

Pin No.	Pin Name	I/O	Description
1	FEO	O	Output terminal for focus error amplifier. Internally connected to window comparator input for bias condition.
2	FEI	I	Input terminal for focus error.
3	FDFCT	I	Capacitor connection terminal for time constant used when there is defect.
4	FGD	I	This pin is connected to GND via capacitor when high frequency gain of the focus servo is attenuated.
5	FLB	I	This is a pin where the time constant is externally connected to raise the low frequency gain of the focus servo.
6	FE_O	O	Focus drive output.
7	FEM	I	Focus amplifier inverted input pin.
8	SRCH	I	This is a pin where the time constant is externally connected to generate the focus search waveform.
9	TGU	I	This is a pin where the selection time constant is externally connected to set the tracking servo the high frequency gain.
10	TG2	I	This is a pin where the selection time constant is externally connected to set the tracking high frequency gain.
11	FSET	I	Pin for setting peak of the phase compensator of the focus tracking.
12	TA_M	I	Tracking amplifier inverted input pin.
13	TA_O	O	Tracking drive output.
14	SL_P	I	Sled amplifier non-inverted input pin.
15	SL_M	I	Sled amplifier inverted input pin.
16	SL_O	O	Sled drive output.
17	ISET	I	The current which determines height of the focus search, track jump and sled kick is input with external resistance connected.
18	Vcc	I	Power supply.
19	LOCK	I	“L” setting starts sled disorder-prevention circuit. (Not pull-up resistance)
20	CLK	I	Clock input for serial data transfer from CPU. (No pull-up resistance)
21	XLT	I	Latch input from CPU. (No pull-up resistance)
22	DATA	I	Serial data input from CPU. (No pull-up resistance)
23	XRST	I	Reset system at “L” setting. (No pull-up resistance)
24	C_OUT	O	Signal output for track number counting.
25	SENS1	O	FZC, DFCT1, TZC, BALH, TGH, FOH, or ATSC is output depending on the command from CPU.
26	SENS2	O	DFCT2, MIRR, BALL, TGL or FOL is output depending on the command from CPU.
27	FOK	O	Output terminal for focus OK comparator.
28	CC2	I	Input pin where the DEFECT bottom hold output is capacitance coupled.
29	CC1	O	DEFECT bottom-hold output terminal. Internally connected to interruption comparator input.
30	CB	I	Connection terminal for DEFECT bottom-hold capacitor.
31	CP	I	Connection terminal for MIRR hold-capacitor. Anti-reverse input terminal for MIRR comparator.

Pin No.	Pin Name	I/O	Description
32	RF_I	I	Input terminal by capacity combination of RF summing amplifier.
33	RF_O	O	Output terminal of RF summing amplifier. Checkpoint of Eye pattern.
34	RF_M	I	Anti-reverse input terminal for RF summing amplifier. The gain of RF amplifier is decided by the connection resistance between RF_M and RFO terminals.
35	RFTC	I	This is a pin where the selection time constant is externally connected to control the RF level.
36	LD	O	APC amplifier output terminal.
37	PD	I	APC amplifier input terminal.
38, 39	PD1, PD2	I	RFI-V amplifier inverted input pin. These pins are connected to the A+C and B+C pins of the optical pickup, receiving by currents input.
40	FEBIAS	I/O	Bias adjustment pin of the focus error amplifier.
41, 42	F, E	I	F and EIV amplifier inverted input pins. These pins are connected to the F and E of the optical pickup, receiving by current input.
43	EI	—	Gain adjustment pin of the I-V amplifier E. (When not in use of BAL automatic adjustment)
44	VEE	—	GND connection pin.
45	TEO	O	Output terminal for tacking-error amplifier. Output E-F signal.
46	LPFI	I	BAL adjustment comparator input pin. (Input through LPF from TEO)
47	TEI	I	Input terminal for tracking error.
48	ATSC	I	Window-comparator input terminal for detecting ATSC.
49	TZC	I	Input terminal for tracking-zero cross comparator.
50	TDFCT	I	Capacitor connection pin for the time constant used when there is defect.
51	VC	O	Output terminal for DC voltage reduced to half of VCC+VEE.
52	FZC	I	Input terminal for focus-zero cross comparator.

IC, CXD2540Q

Pin No.	Pin Name	I/O	Description
1	FOK	I	Focus OK input. Used for SENS output and the servo auto sequencer.
2	FSW	O	Spindle motor output filter switching output.
3	MON	O	Spindle motor on/off control output.
4	MDP	O	Spindle motor servo control.
5	MDS	O	
6	LOCK	O	High, when sampled value of GFS at 460Hz is high. Low, when sampled value of GFS at 460Hz is low by 8 times successively.
7	NC		
8	VCOO	O	Analog EFM PLL oscillation circuit output.
9	VCOI	I	Analog EFM PLL oscillation circuit input. fLOCK=8.6436MHz.
10	TEST	I	TEST pin.
11	PDO	O	Analog EFM PLL charge pump output.
12	VSS		GND.
13	PWMI	I	Spindle motor external control input.
14	V16M	O	VCO2 oscillation output for the wide-band EFM PLL.
15	VCTL	I	VCO2 control voltage input for the wide-band EFM PLL.
16	VPCO	O	Wide-band EFM PLL charge pump output.
17	VCKI	I	VCO2 oscillation input for the wide-band EFM PLL.
18	FILO	O	Multiplier PLL (slave=digital PLL) filter output.
19	FILI	I	Multiplier PLL filter input.
20	PCO	O	Multiplier PLL charge pump output.
21	AVSS		Analog GND.
22	CLTV	I	Multiplier VCO1 control voltage input.
23	AVDD		Analog power supply (5V).
24	RF	I	EFM signal input.
25	BIAS	I	Constant current input of the asymmetry circuit.
26	ASYI	I	Asymmetry comparator voltage input.
27	ASYO	O	EFM full-swing output.
28	ASYE	I	Low: asymmetry circuit off; high: asymmetry circuit on.
29	NC		
30	PSSL	I	Audio data output mode switching input. Low: serial output; high: parallel output.
31	WDCK	O	D/A interface for 48-bit slot. Word clock f=2Fs.
32	LRCK	O	D/A interface for 48-bit slot. LR clock f=Fs.
33	VDD		Power supply (5V).
34	DA16	O	DA16 (MSB) output when PSSL=1. 48-bit slot serial data (two's complement, MSB first) when PSSL=0.
35	DA15	O	DA15 output when PSSL=1. 48-bit slot bit clock when PSSL=0.
36	DA14	O	DA14 output when PSSL=1. 64-bit slot serial data (two's complement, LSB first) when PSSL=0.
37	DA13	O	DA13 output when PSSL=1. 64-bit slot bit clock when PSSL=0.
38	DA12	O	DA12 output when PSSL=1. 64-bit slot LR clock when PSSL=0.

Pin No.	Pin Name	I/O	Description
39	DA11	O	DA11 output when PSSL=1. GTOP output when PSSL=0.
40	DA10	O	DA10 output when PSSL=1. XUGF output when PSSL=0.
41	DA09	O	DA09 output when PSSL=1. XPLCK output when PSSL=0.
42	DA08	O	DA08 output when PSSL=1. GFS output when PSSL=0.
43	DA07	O	DA07 output when PSSL=1. RFCK output when PSSL=0.
44	DA06	O	DA06 output when PSSL=1. C2PO output when PSSL=0.
45	DA05	O	DA05 output when PSSL=1. XRAOF output when PSSL=0.
46	DA04	O	DA04 output when PSSL=1. MNT3 output when PSSL=0.
47	DA03	O	DA03 output when PSSL=1. MNT2 output when PSSL=0.
48	DA02	O	DA02 output when PSSL=1. MNT1 output when PSSL=0.
49	DA01	O	DA01 output when PSSL=1. MNT0 output when PSSL=0.
50	APTR	O	Aperture compensation control output. This pin outputs a high signal when the right channel is used.
51	APTL	O	Aperture compensation control output. This pin outputs a high signal when the left channel is used.
52	VSS		GND.
53	XTAI	I	Crystal oscillation circuit input.
54	XTAO	O	Crystal oscillation circuit output.
55	XTSL	I	Crystal selector input.
56	FSTT	O	2/3 frequency divider output for Pins 53 and 54.
57	FSOF	O	1/4 frequency divider output for Pins 53 and 54.
58	C16M	O	16.9344MHz output. (V16M output in CLV-W and CAV-W modes)
59	MD2	I	Digital-out on/off control. High: on; low: off
60	DOUT	O	Digital-out output.
61	EMPH	O	Outputs a high signal when the playback disc has emphasis, and a low signal when there is no emphasis.
62	WFCK	I	WFCK (write frame clock) output.
63	SCOR	O	Outputs a high signal when either subcode sync S0 or S1 is detected.
64	SBSO	O	Sub P to W serial output.
65	EXCK	I	SBSO readout clock input.
66	SQSO	O	Sub Q 80-bit and PCM peak, level metter and internal status outputs.
67	SQCK	I	SQSO readout clock input.
68	MUTE	I	High: mute; low: release
69	SENS	—	SENS output to CPU.
70	XRST	I	System reset. Reset when low.
71	DATA	O	Serial data input from CPU.
72	XLAT	O	Latch input from CPU. Serial data is latched at the falling edge.
73	VDD		Power supply (5V).
74	CLOK	O	Serial data transfer clock input from CPU.
75	SEIN	I	SENS input from SSP.
76	CNIN	I	Track jump count signal input.

Pin No.	Pin Name	I/O	Description
77	DATO	O	Serial data output to SSP.
78	XLTO	O	Serial data latch output to SSP. Latched at the falling edge.
79	CLKO	O	Serial data transfer clock output to SSP.
80	MIRR	I	Mirror signal input. Used when the number of tracks is 128 or more for the 2N-track jump and M track move of the auto sequencer.

Notes)

- The 64-bit slot is an LSB first, two's complement output, and the 48-bit slot is an MSB first, two's complement output.
- GTOP is used to monitor the frame sync protection status. (High: sync protection window open.)
- XUGF is the negative pulse for the frame sync obtained from the EFM signal. It is the signal before sync protection.
- XPLCK is the inverse of the EFM PLL clock. The PLL is designed so that the falling edge and the EFM signal transition point coincide.
- GFS goes high when the frame sync and the insertion protection timing match.
- RFCK is derived from the crystal accuracy, and has a cycle of 136μ.
- C2PO represents the data error status.
- XRAOF is generated when the 32K RAM exceeds the ±28F jitter margin.

IC, CL680

Pin No.	Pin Name	I/O	Description
1	NC	—	No connection.
2	VSS	—	GND.
3	CD BCK	I	Bit clock input from CD DSP.
4	CD DATA	I	Data input from CD DSP.
5	CD LRCK	I	LRCK input from CD DSP.
6	CD C2PO	I	C2 pointer input from CD DSP.
7-9	NC	—	No connection.
10-15	MD0-MD5	I/O	DRAM/ROM interface. (DATA)
16	VSS	—	Ground.
17	MD6	I/O	DRAM/ROM interface. (DATA)
18	VDD3	—	Power supply 3.3V.
19	MD7	I/O	DRAM/ROM interface. (DATA)
20	VSS	—	Ground.
21	MD8	I/O	DRAM/ROM interface. (DATA)
22	VDD3	—	Power supply 3.3V.
23-29	MD9-MD15	I/O	DRAM/ROM interface. (DATA)
30-36	NC	—	No connection.
37	$\overline{\text{MCE}}$	—	ROM chip enable.
38	$\overline{\text{MWE}}$	O	DRAM write enable.
39	VSS	—	Ground.
40	$\overline{\text{CAS}}$	O	DRAM/ROM interface.
41	VDD3	—	Power supply 3.3V.
42	$\overline{\text{RASO}}$	O	DRAM/ROM interface.
43	$\overline{\text{RASI}}$	O	
44-46	MA10-MA8	O	DRAM/ROM interface. (Address)
47	VSS	—	Ground.
48	MA7	O	DRAM/ROM interface. (Address)
49	VDD3	—	Power supply 3.3V.
50-52	MA6-MA4	O	DRAM/ROM interface. (Address)
53	VSS	—	Ground.
54	MA3	O	DRAM/ROM interface. (Address)
55	VDD3	—	Power supply 3.3V.
56-58	MA2-MA0	O	DRAM/ROM interface. (Address)
59	PGIO7	I/O	Programmable I/O.
60	$\overline{\text{RESET}}$	I	Reset input.
61	VDD MAX IN	—	Power supply - VDDMAX. (5.0V)
62-64	NC	—	No connection.
65	AGND DAC	—	Analog ground.
66	A DAC	—	Analog power supply (DAC) : 3.3V.
67	COMP OUT	O	Composite out.
68	AGND DAC	—	Analog ground.

Pin No.	Pin Name	I/O	Description
69	Y OUT	O	Video signal “Y” OUT.
70	AVDD DAC	—	Analog power supply (DAC) 3.3V.
71	AGND DAC	—	Analog ground.
72	R REF	I	Reference resistor input.
73	V REF	I	Voltage reference input.
74	AVDD DAC	—	Analog power supply (DAC) : 3.3V.
75	C OUT	O	Video signal “C” out.
76	AGND DAC	—	Analog ground.
77-79	CLK SEL0-2	I	Clock selection input.
80	VSS	—	Ground.
81	CLK SEL3	I	Clock selection input.
82	VDD3	—	Power supply 3.3V.
83, 84	CLK SEL4, 5	I	Clock selection input.
85	AGND PLL	—	Analog ground.
86	DA XCK	I	DA XCK (16.933MHz) input.
87	AVDD PLL	—	Analog power supply 3.3V.
88	DA EMP	O	DAC-emphasis output.
89, 90	PGIO5, O6	I/O	Programmable I/O.
91	PGIO0	I/O	
92	PGIO8	I/O	
93	$\overline{\text{VSYNC}}/\overline{\text{CSYNC}}$	O	$\overline{\text{VSYNC}}/\overline{\text{CSYNC}}$ output.
94	AVDD PLL	—	Analog power supply (PLL) 3.3V.
95	VID_DAC_CK	O	Video DAC clock.
96	PROC_CK	O	Processor clock.
97	AUD_XCK	O	Audio XCK.
98	AGND PLL	—	Analog ground.
99	VSS	—	Ground.
100	NC	—	No connection.
101	$\overline{\text{HSYNC}}$	O	$\overline{\text{HSYNC}}$ output.
102	VDD3	—	Power supply 3.3V.
103	VCK OUT	O	VCK out.
104	VSS	—	Ground.
105	GCK	I	Global clock signal input. (42.3MHz)
106	VCK	I	Video clock signal input. (27.0MHz)
107	GCK OUT	O	Global clock signal output. (27.0MHz)
108	DA LRCK	O	DAC-LRCK output.
109	VDD MAX OUT	—	Power supply (VDD MAX) : 5.0V.
110	DA DATA	O	DAC-PCM data output.
111	DA BCK	O	DAC-BIT clock output.
112	HD OUT	O	Micon interface. (Data out)
113	HRDY	O	Micon interface. (Host ready)

Pin No.	Pin Name	I/O	Description
114	$\overline{\text{HINT}}$	O	Micon interface. (Host interrupt)
115	CDG SCK	I	CD-G serial clock input.
116	VSS	—	Ground.
117	HCK	I	Micon interface. (Host clock)
118	VDD3	—	Power supply 3.3V.
119	HD IN	I	Micon interface. (Host data in)
120	VDD3	—	Power supply 3.3V.
121	HSEL	I	Micon interface. (Host select in)
122	CDG DATA	I	CD-G data input.
123	CDG VFSY	I	CD-G VFSY input.
124	CDG SOSI	I	CD-G SOSI input.
125	DSP-XCK	O	DSP-XCK output.
126-128	NC	—	No connection.

IC, LC74781M

Pin No.	Pin Name	I/O	Description
1	VSS1	—	GND connection terminal. (Digital ground terminal).
2	Xtal IN	I	External X'tal and capacitor for internal sync generator, or the external clock are connected to this terminal. (2fsc or 4fsc).
3	Xtal OUT	O	
4	CTRL1	I	Either the external clock input mode or the X'tal generator mode is selected by this selector terminal. L: X'tal generator mode, H: External clock input.
5	BLANK	O	Blank signal (character and the green ORed signal) is output from this terminal. (MODE 0: composite sync signal is output at H.) When reset ($\overline{RST}$ terminal = L), the X'tal clock signal is output. (It is not output when reset by the reset command).
6	OSC IN	I	External coil and capacitor for the character output dot clock generator are connected to this terminal.
7	OSC OUT	O	
8	CHARA	O	The character signal is output from this terminal. (MOD 0: when H, the external sync signal identification signal is output from this terminal. This output signal tells whether the external sync signal is present or not. When external sync signal is present, H is output.) When reset ($\overline{RST}$ terminal = L), the dot clock signal (LC oscillator) is output. (It is not output when reset by the reset command).
9	$\overline{CS}$	I	Enable signal for the serial data input is input to this terminal. The serial data input is enabled at L. Pull-up resistor is built-in. (Hysteresis input).
10	SCLK	I	Clock of the serial data input is input to this terminal. Pull-up resistor is built-in. (Hysteresis input).
11	SIN	I	Serial data input terminal. Pull-up resistor is built-in. (Hysteresis input).
12	VDD2	—	Power supply for the composite video signal level adjustment. (Analog power supply).
13	CV OUT	O	Composite video signal output terminal.
14	NC	—	Connected to GND or not connected.
15	CV IN	I	Composite video signal input terminal.
16	VDD1	—	Power supply (+5V digital power supply).
17	SYN IN	I	Video signal for the internal sync separator circuit is input to this terminal. (When the internal sync separator circuit is not used, the horizontal sync signal or composite sync signal is input to this terminal).
18	SEP C	—	Internal sync separator circuit bias voltage monitoring terminal.
19	SEP OUT	O	The composite sync output signal of the internal sync separator circuit is output from this terminal. (H: MOD 1. H: during internal sync mode. L: during external sync mode.) (When internal sync separator circuit is not used, the SYN IN input signal is output from this terminal).
20	SEP IN	I	The output signal of the SEP OUT terminal is integrated so that the vertical sync signal is input to this terminal. An integrator circuit must be connected between the SEP OUT terminal and this terminal. When this terminal is not used, it must be connected to VDD1.
21	CTRL2	I	When selecting any of the NTSC or PAL or PAL-M or PAL-N system, the pin setting has priority. When L, the NTSC system is selected after resetting. Selection of either NTSC or PAL or PAL-M or PAL-N system by the command becomes effective. H: PAL-M system.

Pin No.	Pin Name	I/O	Description
22	CTRL3	I	Controls whether or not to input the $\overline{\text{VSYNC}}$ signal to the SEPIN input. L: to input the $\overline{\text{VSYNC}}$ signal. H: not to input the $\overline{\text{VSYNC}}$ signal.
23	$\overline{\text{RST}}$	I	System reset input terminal. Pull-up resistor is built-in. (Hysteresis input).
24	VDD1	—	Power supply. (+5V digital power supply).

IC, µPD78016FGC

Pin No.	Pin Name	I/O	Description
1	RBPLS	O	RADIAL BALANCE PLUS.
2	AMUTE	O	AUDIO ANALOG MUTE (H=MUTE ON).
3	GFS	I	GFS.
4	XVCDMD	I	AUDIO/VIDEO CD MODE (L=VCD=SPINDLE GAIN UP).
5	MD2	O	DOUT MUTE CONT.
6	EMPH	I	EMPHASIS.
7	SQSO	I	SQDATA FROM CD.
8	SQCK	O	SQCLK TO CD.
9	VSS	—	GND.
10	SWNT	I	SW TV OUT MODE (L=NTSC).
11	SWAUTO	I	SW TV OUT MODE (L=NTSC/PAL AUTO).
12	SWPAL	I	SW TV OUT MODE (L=PAL).
13	EMERG	I	POWER EMERGENCY STOP (L*3sec=STOP).
14	NC	—	Nou used.
15	LPCSEL	I	“LPC ON/OFF (H=ON, NORMAL)”.
16	NC	—	Nou used.
17	LOCK	O	GFS (FRAME SYNC) LOCK (NO USE=H).
18	DMUTE	O	DIGITAL DATA OUT MUTE.
19	SENS	I	DSP SENS1 FROM CD.
20	XCDRST	O	CD RESET.
21	DATA	O	DATA TO CD.
22	XLAT	O	XLT TO CD.
23	CLOK	O	CLK TO CD.
24	VSS	—	GND.
25	FOK	I	FOCUS OK.
26	SENS2	I	SSP SENS2 FROM CD.
27	XBUSY	I/O	READY/BUSY I/O TO HOST OD.
28	NC	—	Nou used.
29	NC	—	
30	NC	—	
31	TST0	I/O	CHECK LAND.
32	TST1	I/O	
33	TST2	I/O	
34	TST3	I/O	
35	RESET	I	RESET.
36	HRDY	I	HRDY FROM CL680.
37	XHINT	I	HINT FROM CL680.
38	NC	—	Nou used.
39	SCOR	I	SCOR FROM CD.
40	VDD	—	5.0VDD.
41	XO	O	8.0MHz CERALOCK.

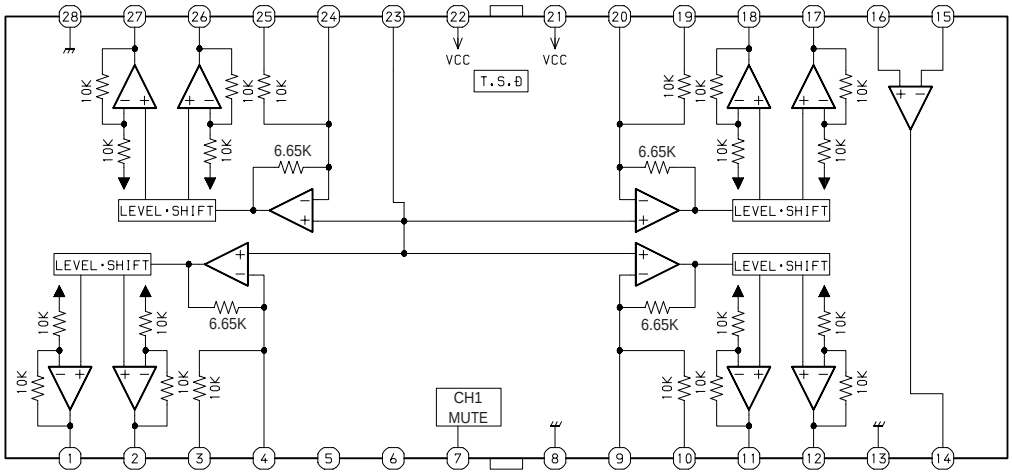
Pin No.	Pin Name	I/O	Description
42	XI	I	8.0MHz CERALOCK.
43	VSS	—	GND.
44	XT2	—	Nou used.
45	XT1	I	5.0VDD.
46	AVSS	—	GND.
47	XMPGRST	O	MPEG BLOCK IC RESET.
48	HSEL	O	ADDRESS/DATA SEL TO CL680.
49	INLSW	I	INSIDE LIMIT SW.
50	NC	—	Nou used.
51	OSDXCS	O	OSD CHIP SELECT.
52	ABSEL	I	CXA1992A/B SELECT (L=CXA1992A).
53	CLVSEL	I	CLV MODE SELECT (H=CLV-N).
54	AADSEL	I	AUTO ADJUST SELECT (H=AUTO ON).
55	AVDD	—	5.0VDD.
56	AVREF	—	
57	HDOUT	I	HD-OUT FROM CL680.
58	HDIN	O	HD-IN TO CL680.
59	HCK	O	HCK TO CL680.
60	OSDDATA	O	OSD DATA.
61	OSDCLK	O	OSD CLOCK.
62	COMMAND	I	COMMAND FROM HOST.
63	STATUS	O	STATUS TO HOST.
64	SCK	I	SCK FROM HOST.

IC, SM5878M

Pin No.	Pin Name	I/O	Description
1	MUTE	I	MODE = H: Soft mute ON/OFF terminal. (Mute at H). MODE = L: Attenuator level DOWN/UP terminal. (DOWN at H).
2	DEEM	I	De-emphasis ON/OFF terminal. (De-emphasis ON at H).
3	CKO	O	Oscillator clock output. (16.9344 MHz).
4	DVSS	—	Digital VSS terminal.
5	BCKI	I	Bit clock input terminal.
6	DI	I	Serial data input terminal.
7	DVDD	—	Digital VDD terminal.
8	LRCI	I	Sample rate clock (fs) input terminal. (H = L ch/L = R ch).
9	TSTN	I	Test input. (“H” or open during normal operation)
10	TO1	O	Test output 1. (Normally low level output).
11	AVDDL	—	Analog VDD terminal. (For L ch).
12	LO	O	Left channel analog output terminal.
13	AVSS	—	Analog VSS terminal.
14	RO	O	Right channel analog output terminal.
15	AVDDR	—	Analog VDD terminal. (For R ch).
16	MUTEO	O	Infinity zero detection output.
17	XVDD	—	X’tal system VDD terminal.
18	XTI	I	X’tal oscillator terminal. (Or external clock input terminal of 16.9344 MHz).
19	XTO	O	X’tal oscillator terminal.
20	XVSS	—	X’tal system VSS terminal.
21	DS	I	Double-speed/normal playback selection. (Double-speed at H).
22	RSTN	I	Reset terminal. (Reset at L).
23	MODE	I	Soft mute/Attenuator mode selection. (Soft mute at H).
24	ATCK	I	Attenuator level setup clock (Ignored when MODE = H).

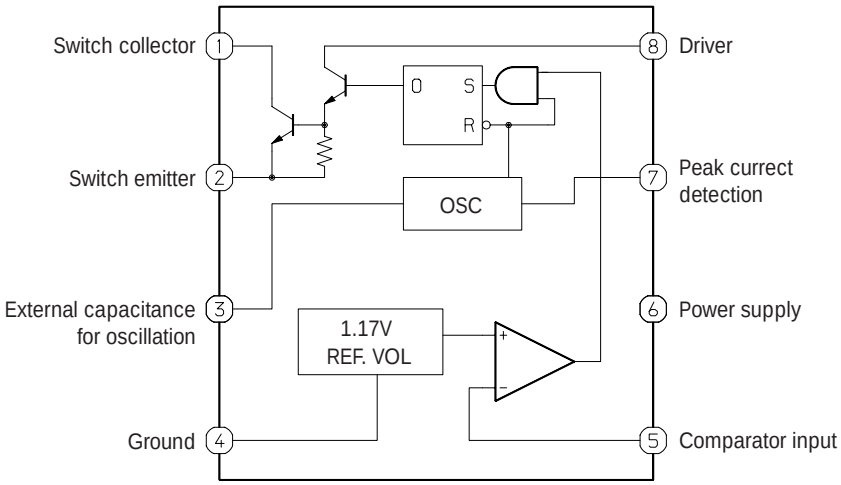
IC BLOCK DIAGRAM

IC, BA5915FP

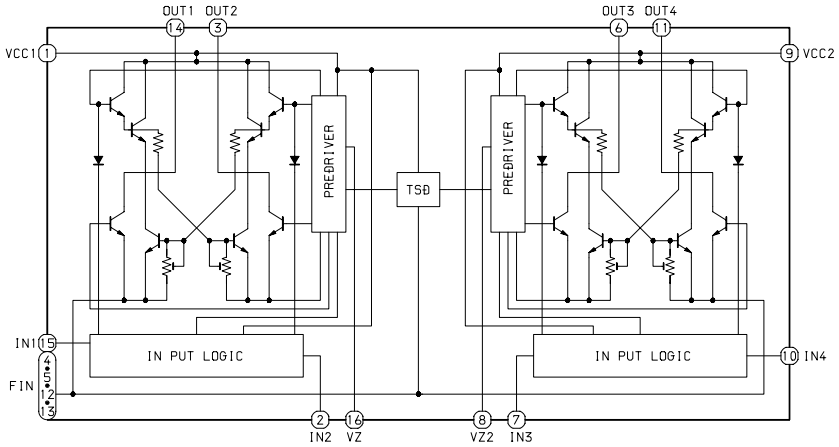


T.S.D: Thermal shut-down
Resistors are in units of Ω.

IC, M5291FP



IC, LB1644



TRUH TABLE

IN1	IN2	OUT1	OUT2	IN3	IN4	OUT3	OUT4
0	0	L	L	0	0	L	L
1	0	H	L	1	0	H	L
0	1	L	H	0	1	L	H
1	1	L	L	1	1	L	L

INPUT			OUTPUT				MODE	
IN1	IN2.3	IN4	OUT1	OUT2	OUT3	OUT4	M1	M2
0	0	0	L	L	L	L	BRAKE	BRAKE
1	0	0	H	L	L	L	FF/REW	BRAKE
0	1	1	L	H	L	L	REW/FF	BRAKE
1	1	0	L	L	H	L	BRAKE	FF/REW
0	0	1	L	L	L	H	BRAKE	REW/FF
1	1	1	L	L	L	L	BRAKE	BRAKE

TEST MODE

1. How to Activate CD Test Mode
   Insert the AC plug while pressing the function CD button.
   All FL display tubes will light up, and the test mode will be activated.

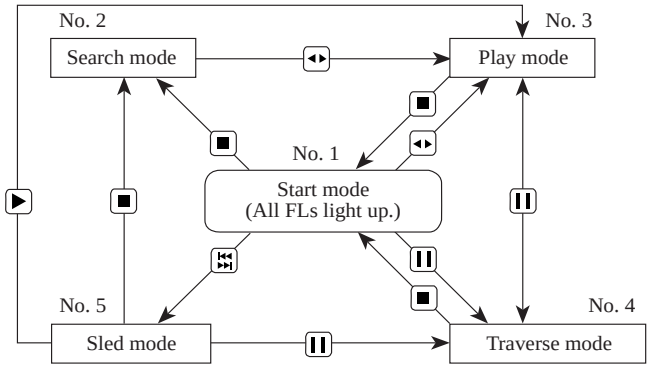
2. How to Cancel CD Test Mode
   Either one of the following operations will cancel the CD test mode.
   - Press the function button. (except CD function button)
   - Press the power switch button.
   - Disconnect the AC plug

3. CD Test Mode Functions
   When test mode is activated, the following mode functions from No.1 to No.5 can be used by pressing the operation keys.

Mode/No.	Operation	FL display	Operation	Contents
Start mode No.1	Activation	TEST□□ □□ □□ Flashes repeatdly	• Test mode is activated. • CD block power is ON.	• Test mode
Search mode No.2	■ key		• Continual focus search (The pickup lens repeats the full-swing up-down motion.) * Avoid continual searches that last for more than 10 minutes. * NOTE 1	FOCUS SERVO • Check focus search waveform • Check focus error waveform (FOK/FZC are not monitored in the search mode)
Play mode No.3	◀▶key		• Normal playback • Focus search is continued if TOC cannot be read. * NOTE 1	FOCUS SERVO/TRACKING SERVO CLV SERVO/SLED SERVO Check FOK/FZC
Traverse mode No.4	⏸ key		• During normal disc playback Press once; tracking servo OFF Press twice; tracking servo ON * NOTE 2	TRACKING SERVO ON/OFF Tracking balance (traverse) check
Sled mode No.5	⏮key ⏭	All lamps light	• Pickup moves to the outermost track • Pickup moves to the innermost track * NOTE 3 (During playback, machine operates normally.)	SLED SERVO Check SLED mechanism operation

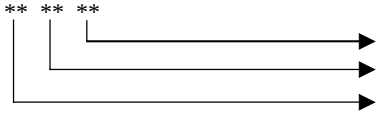
* NOTE 1: There are cases when the tracking servo cannot be locked owing to the protection circuit being operated when heat builds up in the driver IC if the focus search is operated continually for more than 10 minutes. In these cases the power supply should be switched off for 10 minutes until heat has been reduced and then re-started.
* NOTE 2: Do not press the ⏮ or ⏭ keys when the machine is in the ⏸ status is active. If they are pressed, playback will not be possible after the ⏸ status has been canceled. If the ⏮ or ⏭ keys are pressed in the ⏸ status, press the ■ key and return to the start mode (No.1).
* NOTE 3: When pressing the ⏮ or ⏭ keys, take care to avoid damage to the gears. Because the sled motor is activated when the ⏮ or ⏭ keys are pressed, even when the pick-up is at the outermost or innermost track.

4. Operation Outline
   The operation of each mode is carried out in the direction of the arrows from the start mode as indicated in the following illustration.



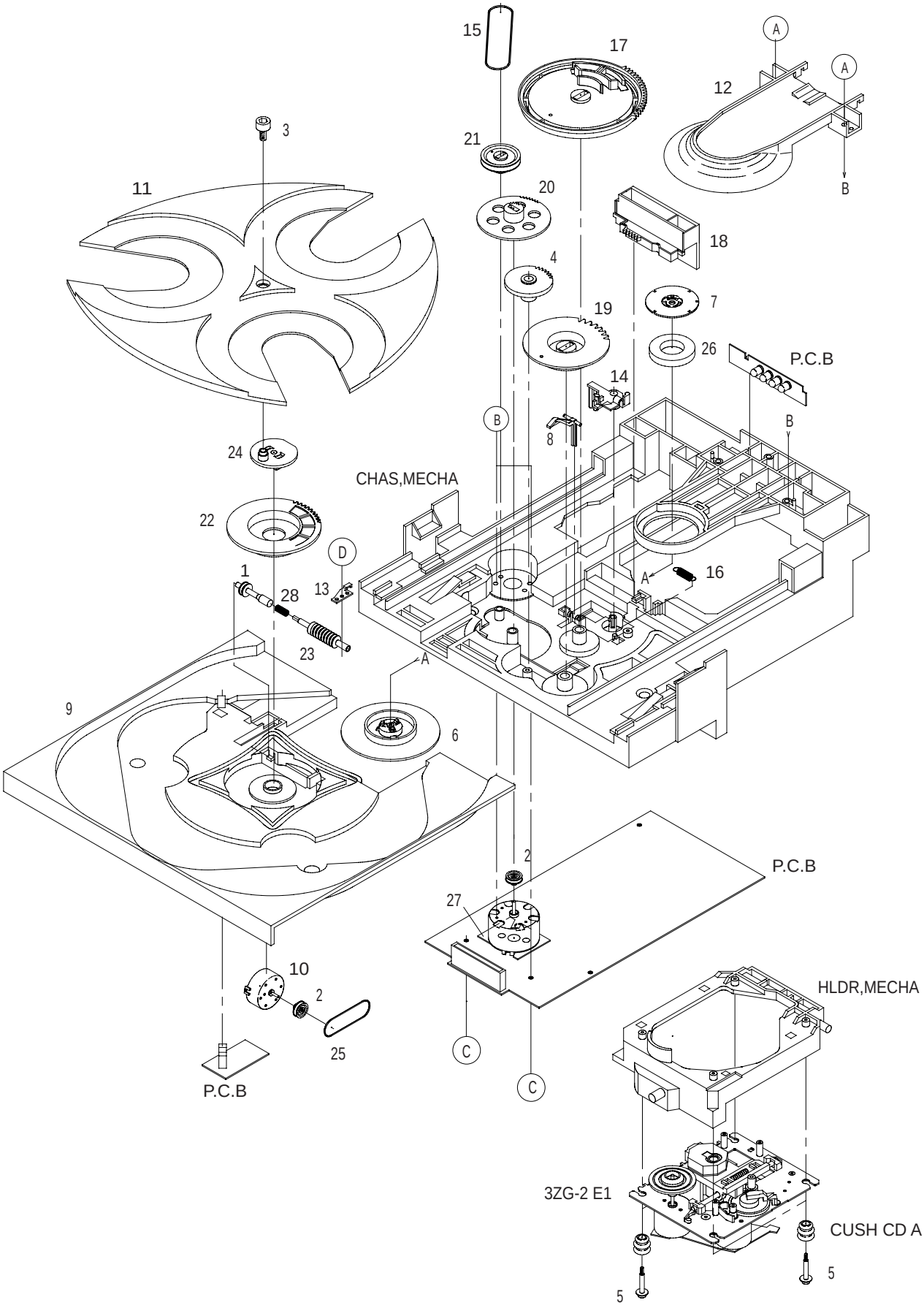
   If the DISC DIRECT PLAY button is pressed, the machine performs the same operation as the PLAY button is pressed as shown. If the tray is opened by pressing OPEN/CLOSE button during Play mode or Traverse mode, the machine returns to the Start mode.

5. How to check the Automatic Adjustment Values
   The automatic adjustment values can be checked by pressing the square (■) button.
   FL display (displayed in hexadecimal values)



Note) The reference value is “20 08 08”.

MECHANICAL EXPLODED VIEW 1/1

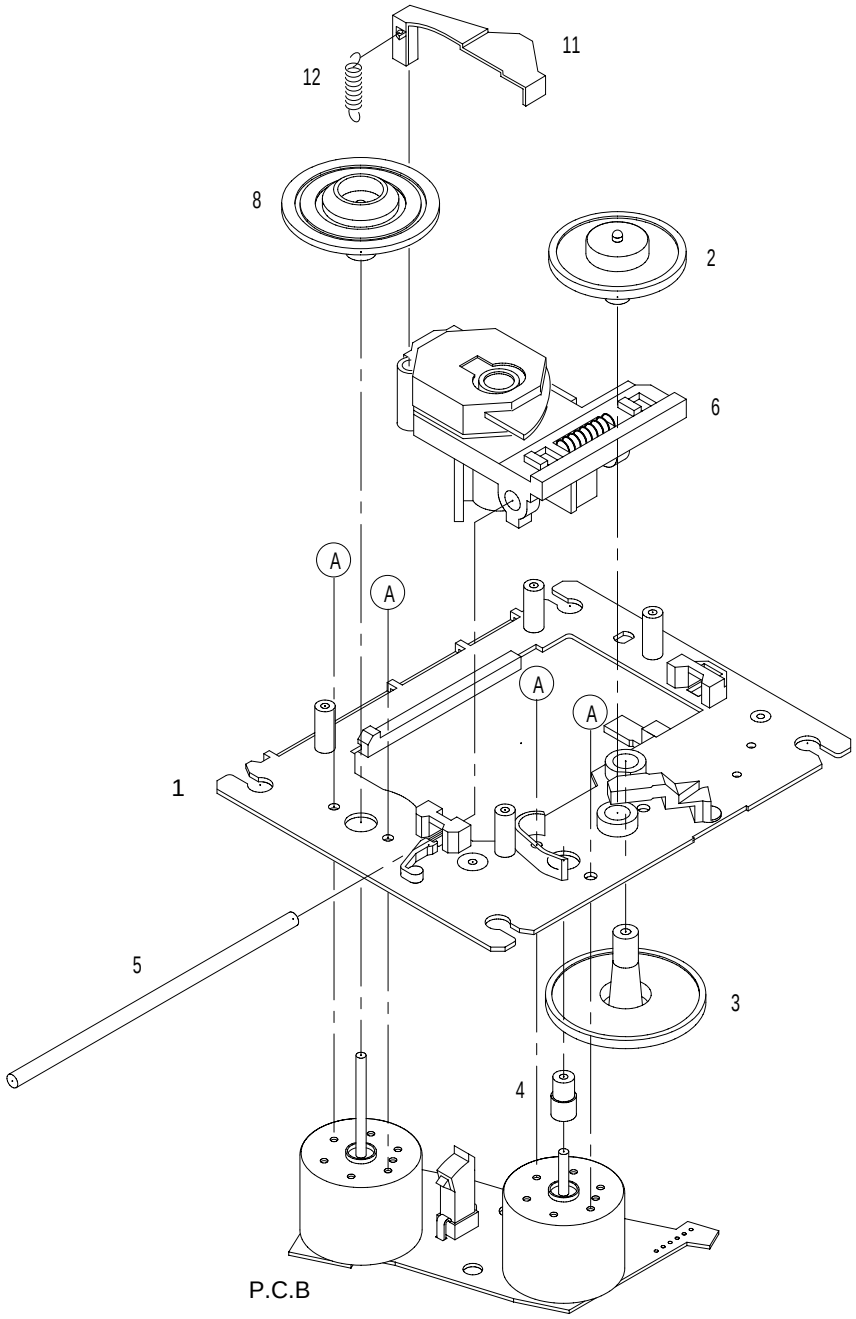


MECHANICAL PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	84-ZG1-239-210		PULLY,WORM N
2	84-ZG1-267-010		PULLEY,LOAD MO 8
3	81-ZG1-239-010		S-SCREW,TT
4	81-ZG1-291-110		GEAR,TRAY RELAY NO3
5	81-ZG1-271-010		S-SCREW MECH REAR
6	81-ZG1-277-310		HLDR,MAGNET N
7	81-ZG1-255-110		PLATE,MAGNET MK2
8	83-ZG3-213-010		LVR,SW
9	84-ZG1-003-310		TRAY,NO2-B
10	87-045-364-010		MOTOR(BCH3B14)
11	84-ZG1-005-210		TURNTABLE,NO1(*)
12	84-ZG1-011-010		REFLECTOR,CD
13	84-ZG1-259-010		SPR-P,WORM
14	84-ZG1-208-210		LEVER,CAM
15	84-ZG1-209-010		BELT,SQ1.8-117.7
16	84-ZG1-211-010		SPR-E CAM S
17	84-ZG1-215-410		GEAR,MAIN CAM BLU
18	84-ZG1-216-310		SLIDE,MECHA CAM YEL
19	84-ZG1-205-110		GEAR,TRAY
20	84-ZG1-206-110		GEAR,RELAY
21	84-ZG1-207-010		PULLEY,RELAY
22	84-ZG1-221-010		GEAR,MAIN TT
23	84-ZG1-238-010		GEAR,WORM N
24	84-ZG1-224-010		LEVER,TT
25	84-ZG1-225-010		BELT,SQ1.0-63.3
26	83-ZG3-602-010		RING,MAG
27	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
28	84-ZG1-248-010		SPR-C,WORM
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-251-070-410		U+2.6-3
C	87-342-036-210		UT2+2-8
D	87-067-981-010		BVT2+3-6 BLK

CD MECHANISM EXPLODED VIEW 1/1 (3ZG-2 E1)



CD MECHANISM PARTS LIST 1/1 (3ZG-2 E1)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	83-ZG2-243-110		CHAS ASSY,SHT
2	83-ZG2-235-010		GEAR,A3
3	83-ZG2-205-210		GEAR,B
4	83-ZG2-236-010		GEAR MOTOR 3
5	83-ZG2-240-010		SHAFT,SLIDE 3
6	87-A90-836-010		PICKUP,KSS-213F
8	83-ZG2-233-010		TURN TABLE,A5
11	83-ZG2-245-110		LEVER,SHUTTER
12	83-ZG2-250-010		SPR-E,SHT 2
A	87-261-032-210		SCREW V+2-3

CX-NAK572
CX-NK270
CX-NK290
CX-NK370
CX-NK570
CX-NK765
CX-NK770
CX-NK970
DX-SNKH100

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
G一　一	
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